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ANNUAL REPORT  
OF THE  
MASSACHUSETTS COMMISSION  
ON MENTAL DISEASES  

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1918

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THIRD ANNUAL REPORT

OF THE

MASSACHUSETTS COMMISSION ON  
MENTAL DISEASES

OF

THE COMMONWEALTH OF MASSACHUSETTS

FOR THE

YEAR ENDING NOVEMBER 30, 1918



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УКАЗЫ  
ПО СОВЕТСКОМУ ПРОИЗВОДСТВУ  
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# MEMBERS OF THE MASSACHUSETTS COMMISSION ON MENTAL DISEASES.

Nov. 30, 1918.

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GEORGE M. KLINE, M.D., <i>Chairman</i> ,	.	.	.	.	.	.	BEVERLY.
JOHN B. TIVNAN,	.	.	.	.	.	.	SALEM.
HENRY M. POLLOCK, M.D.,	.	.	.	.	.	.	BOSTON.
CHAS. G. DEWEY, M.D.,	.	.	.	.	.	.	BOSTON.
ELMER A. STEVENS,	.	.	.	.	.	.	SOMERVILLE.

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## OFFICERS.

LOWELL F. WENTWORTH, M.D., HARLAN L. PAINE, M.D.,  
*Assistant to Director.* *Assistant to Director.*

NELLIE F. BALL, *Statistician.* ALICE M. BROWN, *Senior Stenographer.*  
CLARA L. FITCH, *Senior Clerk.* ELIZABETH F. DINSMORE, *Clerk.*  
M. LOUISE SMALL, *Clerk.* SARA J. GREENE, *Clerk.*

ELMER E. SOUTHDARD, M.D., *Pathologist.*  
MYRTELLE M. CANAVAN, M.D., *Assistant Pathologist.*  
OSCAR J. RAEDER, M.D., *Assistant Pathologist.*  
LILLIAN D. RIDER, *Stenographer.*  
ELLEN R. SCOTT, *Laboratory Assistant.*

WARREN A. MERRILL, *Financial Agent.*  
REBECCA J. GREENE, *Bookkeeper.* CORA E. NORRIS, *Senior Clerk.*  
EDITH A. STEVENS, *Clerk.* JOHN I. ROBINSON, *Bookkeeper.*  
GRACE D. COOK, *Clerk.*

ELWIN H. FORRISTALL, *Investigator of Farm Problems.*

FRANCIS B. GARDNER, *Support Agent.*  
PAUL A. GREEN, *Visitor.* MAUDE F. FREETHY, *Senior Stenographer.*  
FREDERICK R. HOUGHTON, *Visitor.* MARY L. BALLOU, *Clerk.*  
ELBERT L. ARNOLD, *Visitor.* FRANCES C. O'CONNOR, *Clerk.*

ALFRED W. BOSWORTH, *Chemist.*  
HANNAH CURTIS, *Director of Social Service.*  
MABEL G. GRAGG, *Visitor. Department of Family Care.*

*Transportation Agents.*  
FRED A. HEWEY. CLAIRE T. MCINNERNEY.

REGINALD H. JOHNSTON,  
*Laboratory Assistant and Messenger.*

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# The Commonwealth of Massachusetts

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STATE HOUSE, BOSTON, July 25, 1919.

*To His Excellency the Governor and the Honorable Council.*

The undersigned, members of the Massachusetts Commission on Mental Diseases, respectfully submit the third annual report of the Commission for the year ending Nov. 30, 1918. The matters, however, relating to general statistics cover the year ending September 30.

GEORGE M. KLINE.  
JOHN B. TIVNAN.  
HENRY M. POLLOCK.  
CHAS. G. DEWEY.  
ELMER A. STEVENS.



# The Commonwealth of Massachusetts

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## REPORT OF THE MASSACHUSETTS COMMISSION ON MENTAL DISEASES.

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### DUTIES OF THE COMMISSION.

The Massachusetts Commission on Mental Diseases was established by chapter 285 of the General Acts of 1916, succeeding the former State Board of Insanity.

The Commission has general supervision of all public and private institutions for the insane, feeble-minded and epileptic persons, etc., and it has the right of investigation and recommendation as to any matter relating to the classes under care. Each State institution has, however, its own board of trustees appointed by the Governor and Council.

The direct powers of the Commission concern the interrelations of institutions and matters which are common to them all, such as the distribution and transfer of patients, deportations of patients to other States and countries, claims to support as State charges in institutions, etc.

The expenditure of money under special appropriations for new buildings and unusual repairs is under the control of the Commission, which is required to prepare plans for new buildings and to select land to be taken for the purpose of any new or existing institutions. The Commission also analyzes all requests for maintenance appropriations.

The laws regarding the insane and other classes under care will be found in chapter 504 of the Acts of 1909, and amendments thereof.

## APPOINTMENTS.

Charles G. Dewey, M.D., was reappointed a member of the Commission in October, 1918, for a period of four years. Dr. Dewey has been actively interested in the work of the Commission since his appointment in 1916.

Dr. Samuel W. Crittenden resigned in June, 1918, to become assistant surgeon at the United States Marine Hospital in Chelsea, Mass.

Dr. Crittenden was appointed assistant to the director of this Commission in September, 1916, after a service of sixteen years and a half as assistant physician and assistant superintendent at the Boston State Hospital.

Dr. Harlan L. Paine was appointed assistant to the director in October, 1918, to fill the vacancy caused by the resignation of Dr. Crittenden, and is especially fitted for this position. He graduated from the Tufts Medical School in 1908, served a year at the Cambridge Hospital, and entered the State service as assistant physician at Danvers State Hospital in 1909. He remained at Danvers until March, 1914, when he was appointed assistant superintendent at the Gardner State Colony, which position he resigned to become assistant to the director.

Miss Hannah Curtis was appointed director of social service work in June, 1918. This position was created for the purpose of organizing and standardizing the social service work of the State institutions.

Miss Curtis is particularly qualified for this position. She is a graduate of the school for social workers, received her training at the Massachusetts General Hospital, and specialized in associated charities and in investigations. She entered the employ of the Danvers State Hospital in 1913 as head social service worker, where she remained until appointed to her present position.

Early in 1918 the Commission decided to obtain the services of a man with special training in agriculture in order that the farming activities of all the institutions might be observed and the results analyzed. The farm records for the previous year were carefully studied, surveys of the institutional farm activities made, and conferences held that there might result a better

correlation with other departments. Programs were outlined for the production of food, such as milk, pork, potatoes and garden products, based upon the requirements of the institution population. An important function of this service is the assistance rendered in analyzing the annual budget of farm requests, and standardization as far as practicable.

Mr. Elwin H. Forristall was appointed farm investigator. He is a graduate of the New Hampshire State College, receiving the degree of B.S. in Agriculture in 1897, and M.S.C. in 1900.

Mr. Forristall's experience is as follows: two and one-half years in charge of agricultural and horticultural work at New Hampshire College Farm and Experiment Station, Durham, N. H.; about four years in charge of the Walker-Gordon Modified Milk Company's Farm, Charles River, Mass.; and nine years with the Massachusetts Agricultural College as superintendent of farm and its branches. At each of these places he had charge of all purchases and sales. For four years he was in charge of the Cortland County Farm Bureau, Cortland, N. Y., and in December, 1915, was appointed agriculturalist in the Department of Agriculture, Washington, D. C., which position he resigned in March, 1917, to become director and secretary of the Federal Land Bank of Springfield.

#### DEATH OF DR. ERNEST V. SCRIBNER.

Dr. Ernest Varian Scribner, superintendent of the Worcester State Hospital, died on June 14, 1918.

Dr. Scribner graduated from the Bowdoin, Me., Medical College in 1881, ranking second in his class. After leaving college he was appointed assistant physician at the Worcester State Hospital. At the end of one year his health failed and he removed to North Dakota. In 1884 he returned East and became assistant superintendent of the Worcester Insane Asylum (now the Grafton State Hospital), and in November, 1890, following the resignation of Dr. Hosea M. Quimby, he was appointed superintendent at thirty-five years of age. This position he held for a period of twenty-two years, at the expiration of which he resigned to accept the superintendency of the Worcester State Hospital, where he died after a comparatively

short illness. With the exception of two years, his entire professional life of thirty-seven years was spent in that special department of psychiatry which he chose early as his life work.

The trustees of the Worcester State Hospital, in their annual report, pay the following tribute to Dr. Scribner:—

In his death both the hospital and the State have lost a faithful and efficient servant. For more than thirty years he devoted himself to ameliorating the conditions of the insane in every way which science and humanity could suggest. To Dr. Scribner no inmate of the hospital became a mere case. His warm heart and generous sympathy made each an unfortunate human being to whom the utmost kindness and consideration should be shown. His broad outlook and sound judgment inspired confidence in all with whom he came in contact. His quiet humor and ability to see both sides of an argument enabled him to deal readily with difficult situations. The trustees honor the memory of one who was not only an able and high-minded official, but under all circumstances a loyal, personal friend.

#### SHORTAGE OF EMPLOYEES.

An insufficient number of officers and employees has continued to make extremely difficult the proper administration of the institutions. While in a large measure due to war conditions, it is believed that recommendations made in previous reports, relating to wages and living conditions, must be met if a standard of care, other than mere custodial, is again to be maintained. It is no longer a question of selecting properly qualified employees from applications, but taking every one available, and even then falling far short of the required quota. Until conditions improve so that applicants will be attracted to institutional service, instead of the institution seeking employees at employment agencies, there is little hope of bettering the standard of care.

#### NEW BUILDINGS AND OTHER CONSTRUCTION.

Owing to the sharp advance in the prices for materials and labor, much difficulty was experienced in obtaining bids within the amounts appropriated for new construction. In the case of the central service building at the Foxborough State Hospital, bids were opened Dec. 21, 1917, which were within the appropriation, this being the second time that bids had been adver-

tised for, the previous opening being on Oct. 29, 1917, at which time bids exceeded the appropriation by over \$21,000. Bids were opened for the standpipe at the Westborough State Hospital on June 24, 1918, and the contract was awarded, but the United States government would not issue a priority order for the necessary steel, and the contract had not been signed at the close of the year. Again, for boilers and blowers at the Boston State Hospital, a second advertising was necessary in order to get bids within the appropriation, and the same was true in regard to the radio brick chimney at the Wrentham State School.

#### DEVELOPMENT AT BELCHERTOWN.

Preliminary work and study has been continued on the proposed school for the feeble-minded at Belchertown. The Commission named as landscape architect and civil engineer, R. Loring Haywood; Kendall, Taylor & Co. as architects; R. D. Kimball Company as engineers; and Mr. James L. Tighe as engineer for water supply, sewerage and drainage.

It is proposed that this school will, in general, be a duplicate of the plant at Wrentham. The necessary legislation was passed providing for an adequate water supply for this institution. A colony of boys from the Wrentham State School has been continued at Belchertown to care for the buildings and crops. The results of the farming activities at this place have been very satisfactory. Much credit is due to Dr. George L. Wallace, superintendent of the Wrentham State School, for the assistance given in the preliminary work at this proposed institution, and to Dr. Walter E. Fernald, superintendent of the Massachusetts School for the Feeble-minded, as a consultant in problems relating to development.

#### INFLUENZA EPIDEMIC.

A very trying period was occasioned by the epidemic of influenza at the institutions, the seriousness of which is shown in the following tabulation:—

Cases of influenza among patients, . . . . .	3,063
Cases of influenza among employees, . . . . .	568
<hr/>	
Total number of cases, . . . . .	3,631
 Cases of pneumonia among patients, . . . . .	450
Cases of pneumonia among employees, . . . . .	92
<hr/>	
Total number of cases, . . . . .	542
 Cases of influenza and pneumonia, . . . . .	4,173
 Deaths from influenza among patients, . . . . .	101
Deaths from influenza among employees, . . . . .	6
<hr/>	
Total number of deaths, . . . . .	107
 Deaths from pneumonia among patients, . . . . .	282
Deaths from pneumonia among employees, . . . . .	28
<hr/>	
Total number of deaths, . . . . .	310
 All deaths from influenza and pneumonia, . . . . .	417

Added duties and responsibilities throughout the epidemic imposed upon the personnel in the institutions already depleted in numbers on account of the war were assumed in a most commendable manner.

#### NURSING SERVICE.

In the Commission's analysis of institutional estimates under personal service the following ratio of patients to employees was adopted:—

Number of patients to each physician, . . . . .	1 to 150
Number of patients to each nurse and attendant in acute hospitals, . . . . .	1 to 8
Number of patients to each nurse and attendant in Grafton State Hospital, . . . . .	1 to 10
Number of patients to each nurse and attendant in Medfield State Hospital, . . . . .	1 to 9.5
Number of patients to each nurse and attendant in Gardner State Colony, . . . . .	1 to 11
Number of patients to each nurse and attendant in Monson State Hospital, . . . . .	1 to 8.5
Number of patients to each employee in all hospitals, . . . . .	1 to 4.5

## THE RATION ALLOWANCE

adopted by the Commission as a basis for determining the food requirements in the various hospitals was as follows: —

	Ounces per Day.	Ounces per Year.	Pounds per Year.	Commercial Units used.
<b>Farinaceous Food: —</b>				
Flour, . . . . .	9.50	3,467.50	216.710	1.105 barrels
Other, . . . . .	4.37	1,595.05	99.690	99.690 pounds
Meats and fish, . . . . .	8.75	3,193.75	199.610	199.610 pounds
Butter, . . . . .	1.37	500.05	31.250	31.250 pounds
Cheese, . . . . .	.30	109.50	6.870	6.870 pounds
Coffee, . . . . .	.44	160.60	10.030	10.030 pounds
Tea, . . . . .	.12	43.80	2.730	2.730 pounds
Milk (pints), . . . . .	1.25	456.25	—	228.120 quarts
Eggs (numbers of), . . . . .	.50	182.50	—	15.208 dozen
Sugar, . . . . .	1.90	693.50	43.343	43.343 pounds
Potatoes, . . . . .	9.50	3,467.50	216.710	216.710 pounds

Fruit,  $1\frac{1}{4}$  cents per day per capita.

Not listed on ration allowance,  $1\frac{1}{2}$  cents per day per capita.

## EMPLOYEES IN GOVERNMENT SERVICE.

A large number of physicians, nurses and other employees of our State hospitals entered the Federal service in connection with the war, and very often it was impossible to replace this number, so that great difficulty was experienced in carrying on the activities of the hospitals.

Following is a list of those physicians who left the State hospitals to enter the military or naval service: —

## Worcester State Hospital: —

Dr. Donald R. Gilfillan.

Dr. John C. Lindsay.

## Taunton State Hospital: —

Dr. Thomas O'Brien.

Dr. Charles E. Roderick.

Dr. J. V. Chatigny.

Dr. J. J. Thompson.

## Northampton State Hospital: —

Dr. Arthur N. Ball.

Dr. P. W. Stone (Dentist).

## Danvers State Hospital: —

Dr. Alfred P. Chronquest.

Dr. Nelson G. Trueman.

Dr. Milton A. Harrington.

## Westborough State Hospital: —

Dr. Ralph M. Chambers.

Dr. James A. Gould.

Dr. Winfred Overholser.

Dr. Michael M. Jordan.

Dr. Michael J. Shealey.

Dr. Dana F. Downing.

## Boston State Hospital:—

Dr. John I. Wiseman.

Dr. William M. Dobson.

Dr. William T. Rumage.

## Grafton State Hospital:—

Dr. William A. McIntyre.

## Medfield State Hospital:—

Dr. George E. McPherson.

## Gardner State Colony:—

Dr. James L. McAuslan.

## Bridgewater State Hospital:—

Dr. W. Y. Seymour.

## Monson State Hospital:—

Dr. Morgan B. Hodskins.

Dr. Ransom A. Greene.

Dr. Heiman Caro.

Dr. Buell L. Ashmore.

Dr. Harvey M. Watkins.

## Foxborough State Hospital:—

Dr. James F. McFadden.

Dr. George L. Bunnell.

Dr. Hubert M. English.

## Commission on Mental Diseases:—

Dr. Elmer E. Southard.

Dr. Douglas A. Thom.

Dr. Fred F. Flanders (Chemist).

One hundred and fifteen nurses and attendants were also released for government service.

## MISCELLANEOUS.

A committee of superintendents was appointed by the Commission to give consideration to the matter of uniform records. Dr. J. B. Macdonald, superintendent of Danvers State Hospital, was named as chairman. The other members of the committee are Dr. John A. Houston, superintendent of Northampton State Hospital, and Dr. George L. Wallace, superintendent of Wrentham State School.

The Commission also appointed a committee of superintendents to give consideration to drafting uniform rules and regulations for the use of the hospitals; Dr. A. C. Thomas, superintendent of the Foxborough State Hospital, was named as chairman.

The work of standardization of salaries initiated by a sub-committee of the Governor's Council and the Supervisor of Administration last year has been completed, and salaries and wages of all officers and employees of State institutions under the supervision of the Commission conform to the standard schedule of the Supervisor of Administration.

The work on the filter beds at the Medfield State Hospital is being done by one of the prison camps. The Bureau of Prisons has shown a splendid spirit of co-operation with this Commission.

The Director of the Massachusetts Bureau of Prisons, the chairman of the Advisory Prison Board, the secretary of the State Board of Charity, the superintendent of the Massachusetts School for the Feeble-minded, the Supervisor of Administration and the chairman of this Commission were appointed a special commission (chapter 64, Resolves of 1918) to investigate and consider all matters relative to the control, custody and treatment of defective delinquents, feeble-minded persons, persons suffering from excessive use of drugs or alcohol, criminals and misdemeanants. A report of the findings of this Commission will be made to the General Court of 1919, together with such recommendations as are deemed expedient.

The general statistical tables appearing in this report relative to the insane are in accordance with the form recommended by the American Medico-Psychological Association. These tables appeared in the report for 1917 for the first time. Uniform record cards for admissions, discharges, etc., have been adopted by the institutions.

The Commission deems it inexpedient at this time to consider further the development of the proposed Metropolitan Hospital, on the site purchased in 1915, at the present high cost of construction, and believes that it is far more economical to the State to develop the Boston State Hospital to its maximum capacity.

#### THE RECOMMENDATIONS FOR LEGISLATION

named below were submitted to the General Court of 1919:—

To provide for the commitment of insane persons to the Gardner State Colony.

To provide further supervision, care and control of the neglected, dangerous or uncontrolled feeble-minded persons in the community.

To authorize the Massachusetts Commission on Mental Diseases to take real property by eminent domain.

Relative to the employment of persons in the institutional service of the Commonwealth.

To make the Worcester Department of the Grafton State

Hospital a part of the Worcester State Hospital, and subject to the power and authority of the trustees thereof.

To amend section 93 of chapter 504 of the Acts of 1909, relative to providing a penalty for assisting in the escape of a patient.

To provide for an assistant director for the Commission on Mental Diseases.

Relative to commitments for observation.

## REVIEW OF THE YEAR.

ALL CLASSES UNDER CARE.<sup>1</sup>

The number and location of the classes actually in the institutions and in family care Oct. 1, 1918, were:—

LOCATION.	Insane.	Feeble-minded.	Epileptic (Sane).	Voluntary (Sane).	Inebriate.	Total.	Other Classes.
Worcester State Hospital, . . . .	1,592	-	-	-	-	1,592	-
Taunton State Hospital, . . . .	1,405	-	-	-	-	1,405	-
Northampton State Hospital, . . . .	1,009	-	-	-	-	1,009	-
Danvers State Hospital, . . . .	1,515	-	-	-	-	1,515	-
Westborough State Hospital, . . . .	1,261	-	-	4	-	1,265	-
Boston State Hospital, . . . .	1,663	-	-	-	-	1,663	-
Mental wards, State Infirmary, . . . .	711	-	-	-	-	711	-
Grafton State Hospital, . . . .	1,879	-	-	-	-	1,879	-
Medfield State Hospital, . . . .	1,619	-	-	-	-	1,619	-
Gardner State Colony, . . . .	831	-	-	-	-	831	-
Monson State Hospital, . . . .	272	-	682	-	-	954	-
Bridgewater State Hospital, . . . .	850	-	-	-	-	850	-
Foxborough State Hospital, . . . .	425	-	-	-	-	425	-
Family care, under Commission, . . . .	44	-	-	-	-	44	-
Massachusetts School for the Feeble-minded at Waltham,	-	1,551	-	-	-	1,551	-
Wrentham State School, . . . .	-	1,212	-	-	-	1,212	-
Hospital Cottages for Children, <sup>2</sup> . . . .	-	74	-	-	-	74	17
McLean Hospital, . . . .	207	-	-	2	-	209	-
Elm Hill Private School and Home for the Feeble-minded.	-	42	-	-	-	42	-
Twenty-seven other private institutions, . . . .	141	48	-	15	73	277	43
Almshouses, . . . .	-	189 <sup>3</sup>	-	-	-	189	-
Total under care, <sup>4</sup> . . . .	15,424	3,116	682	21	73	19,316	60
Viz.:—							
Public care, . . . .	15,076	3,026	682	4	-	18,788	-
Institutions and family care under trustees.	15,032	2,837	682	4	-	18,555	-
Family care under Commission, . . . .	44	-	-	-	-	44	-
Almshouses, . . . .	-	189	-	-	-	189	-
Private care, . . . .	348	90	-	17	73	528	60
McLean Hospital, . . . .	207	-	-	2	-	209	-
Twenty-eight private institutions, . . . .	141	90	-	15	73	319	60

<sup>1</sup> See Tables Nos. 11 and 12 for whole number under care, inclusive of patients absent on visit or escape.

<sup>2</sup> Placed again under care of Commission, April, 1918.

<sup>3</sup> Taken from reports of overseers of the poor, March, 1918.

<sup>4</sup> Includes temporary care cases.

### THE WHOLE NUMBER OF THE CLASSES

under care Oct. 1, 1918, was 19,316, being 1 such person to every 199 of the estimated population of the State. Of this number, 15,424, or 79.85 per cent, were insane; 3,116, or 16.13 per cent, feeble-minded; and 682, or 3.53 per cent, epileptic (sane). Their increase for the year was 216.

The whole number of such persons under public care was 18,788; under private care, 528.

The increase of such persons under public care for the year was 143; their average annual increase for the last five years, 436.

### THE INSANE

in institutions and family care Oct. 1, 1918, numbered 15,424, being 1 insane person to every 250 of the estimated population of the State. In addition, there were 1,778 persons who were temporarily absent from institutions, and a considerable number of others in the community who had been previously discharged or had never appeared in institutions for the insane.

The insane appear under public care in public institutions and in family care, at public expense, and under private care in private institutions. Their number and increase in these locations for the year, the last five years, the last ten years and the last twenty-five years are shown as follows:—

	NUMBER OCT. 1, 1918.			INCREASE OVER PRE- VIOUS YEARS.					Average Increase, Five Years.	Average Increase, Ten Years.	Average Increase, Twenty-five Years.
	Males.	Females.	Totals.	1918.	1917.	1916.	1915.	1914.			
Public institutions, <sup>1</sup> .	7,321	7,711	15,032	92	311	319	831	396	389.8	404.1	398.56
Family care under Commission.	—	44	44	3 <sup>2</sup>	17 <sup>2</sup>	22 <sup>2</sup>	216 <sup>2</sup>	34 <sup>2</sup>	58.4 <sup>2</sup>	20.0 <sup>2</sup>	4.80 <sup>2</sup>
Total, public, .	7,321	7,755	15,076	89	294	297	615	362	331.4	384.1	393.76
Private institutions, .	125	223	348	—	7 <sup>2</sup>	5	9	6 <sup>2</sup>	.2	3.9	4.60
Total, public and private.	7,446	7,978	15,424	89	287	302	624	356	331.6	388.00	398.36

<sup>1</sup> Includes 242 patients in family care under trustees.

<sup>2</sup> Decrease.

### THE INCREASE OF THE INSANE

under care for the year was 89, compared with 287 the previous year; 331, the average annual increase for the last five years; 388, the last ten years; and 398, the last twenty-five years. The increase has been greatly reduced by reason of industrial conditions prevailing during the war period.

The number of non-resident insane was 69, compared with 80 the previous year, and 74 the average number the last five years. Of these, 66 were patients in private institutions, and 3 private patients in State hospitals.

It is the policy of the State not to receive into its institutions non-residents, even as private patients, unless their friends are resident in Massachusetts and have just claims for such service.

### THE INCREASE OF THE INSANE UNDER PUBLIC CARE

was 89, compared with 294 the previous years; 331, the average annual increase for the last five years; 384, the last ten years; and 393, the last twenty-five years.

### THE NUMBER OF THE INSANE UNDER PRIVATE CARE

remained the same as the previous year, compared with an average annual increase for the last five years of .2; the last ten years, 3.9; and 4.6 the last twenty-five years.

In addition to the insane there were in private institutions 240 other patients. Of these, 17 were sane voluntary mental patients, 60 non-mental patients, 73 inebriates and 90 feeble-minded.

### THE DECREASE OF THE INSANE IN FAMILY CARE UNDER THE COMMISSION

was 3. The number in family care under institutions on Oct. 1, 1918, was 242, a decrease of 36.

### ALL ADMISSIONS OF MENTAL PATIENTS

from the community to public institutions and McLean Hospital were 5,419. They comprise commitments as insane, temporary-care admissions, voluntary admissions of the insane, and

voluntary admissions of mental patients who were classed as sane.

Admissions as insane to public institutions and McLean Hospital, inclusive of voluntary insane and temporary-care cases, numbered 5,379.

Voluntary admissions of the insane, which are included in the above figure, were 670, compared with 627 the previous year. Public institutions received 599 such patients, and McLean Hospital 71.

Voluntary admissions of mental patients who were classed as sane were 38, compared with 93 the previous year. Public institutions received 35 such patients, and McLean Hospital 3.

#### ALL VOLUNTARY ADMISSIONS

to public institutions and McLean Hospital were 708, compared with 720 the previous year, and 721, the average the last five years. Public institutions received 634 such patients, compared with 648 the previous year, and 654, the average the last five years. McLean Hospital received 74 such patients, compared with 72 the previous year, and 67, the average the last five years.

#### FIRST CASES OF INSANITY

appeared in public institutions and McLean Hospital to the number of 3,766. Of all the admissions of the insane to these institutions (inclusive of insane voluntary and temporary-care patients), 70.01 per cent appeared for the first time in any institution for the insane, compared with 73.05 per cent the previous year. One insane person came under care for the first time from every 1,021 of the estimated population of the State.

#### THE NATIVITY OF SUCH FIRST CASES OF INSANITY

does not differ materially from the percentages of the previous year. Exclusive of 21 whose birthplaces were unknown, 2,132, or 56.93 per cent, were born in the United States, compared with 56.6 per cent the previous year, and 1,613, or 43.07 per cent, in foreign countries, compared with 43.4 per cent the previous year.

### THE PARENTAGE

also corresponds substantially with the percentages of previous years. Exclusive of 192 whose birthplaces were unknown, 1,222, or 32.36 per cent, of the parents of male patients were born in the United States, compared with 31.9 per cent the previous year, and 2,554, or 67.64 per cent, in foreign countries, compared with 68.1 per cent the previous year.

Exclusive of 237 whose birthplaces were unknown, 1,081, or 32.49 per cent, of the parents of female patients were born in the United States, compared with 34 per cent the previous year, and 2,246, or 67.51 per cent, in foreign countries, compared with 66 per cent the previous year.

### CITIZENSHIP.

Of the 3,766 first admissions as insane, 2,169, or 57.59 per cent, were citizens by birth, compared with 56.65 per cent the previous year, and 226, or 6 per cent, by naturalization, compared with 7.36 per cent the previous year. There were 994 aliens, or 26.40 per cent, compared with 14.23 per cent the previous year, and 377, or 10.07 per cent, where the citizenship was unascertained, compared with 21.76 per cent the previous year.

### PSYCHOSES OF FIRST ADMISSIONS

were as follows:—

	1918.		1917.
	Cases.	Per Cent.	Per Cent.
Traumatic, . . . . .	15	.40	.29
Senile, . . . . .	335	8.89	7.55
With cerebral arteriosclerosis, . . . . .	293	7.78	7.21
General paralysis, . . . . .	289	7.67	7.89
With cerebral syphilis, . . . . .	43	1.14	1.39
With Huntington's chorea, . . . . .	6	.16	.12
With brain tumor, . . . . .	4	.11	.34
With other brain or nervous diseases, . . . . .	44	1.17	.82
Alcoholic, . . . . .	304	8.07	12.29
Due to drugs and other exogenous toxins, . . . . .	12	.32	.24

	1918.		1917.
	Cases.	Per Cent.	Per Cent.
With pellagra, . . . . .	5	.13	.12
With other somatic diseases, . . . . .	115	3.05	2.04
Manic-depressive, . . . . .	325	8.63	8.34
Involution melancholia, . . . . .	71	1.89	2.26
Dementia præcox, . . . . .	914	24.27	24.55
Paranoia and paranoic conditions, . . . . .	63	1.67	1.37
Psychoneuroses, . . . . .	91	2.42	2.14
With mental deficiency, . . . . .	65	1.73	2.29
With constitutional psychopathic inferiority, .	17	.45	.26
Epileptic, . . . . .	92	2.44	2.84
Undiagnosed, . . . . .	204	5.42	4.40
Not insane, . . . . .	459	12.19	11.25

The following 6 forms, namely, senile, 8.89 per cent; with cerebral arteriosclerosis, 7.78 per cent; general paralysis, 7.67 per cent; alcoholic, 8.07 per cent; manic-depressive, 8.63 per cent; dementia præcox, 24.27 per cent, furnished 65.31 per cent of first admissions, compared with 67.83 per cent the previous year.

#### RACE.

The races named below furnished the greatest number of first admissions.

RACE.	1918.		1917.
	Cases.	Per Cent.	Per Cent.
English, . . . . .	1,046	27.77	29.50
Irish, . . . . .	934	24.80	25.87
Slavonic, . . . . .	182	4.83	6.78
French, . . . . .	200	5.31	5.34
German, . . . . .	93	2.47	2.09
Italian, . . . . .	161	4.27	3.99
Scotch, . . . . .	106	2.81	2.43
Scandinavians, . . . . .	85	2.26	2.38
Mixed, . . . . .	403	10.70	9.50
Hebrew, . . . . .	161	4.28	.69
African black, . . . . .	79	2.10	1.41

## AGES.

YEARS.	1918.		1917.
	Cases.	Per Cent.	Per Cent.
Under 20, . . . . .	327	8.69	8.3
From 20 to 25, . . . . .	387	10.28	10.3
From 25 to 30, . . . . .	389	10.34	11.4
From 30 to 35, . . . . .	422	11.21	10.7
From 35 to 40, . . . . .	380	10.10	10.5
From 40 to 45, . . . . .	337	8.96	9.6
From 45 to 50, . . . . .	290	7.71	8.8
From 50 to 55, . . . . .	294	7.81	7.3
From 55 to 60, . . . . .	202	5.37	5.6
From 60 to 65, . . . . .	195	5.18	4.8
From 65 to 70, . . . . .	176	4.68	3.9
Over 70, . . . . .	364	9.67	8.8

## DEGREE OF EDUCATION.

	1918.		1917.
	Cases.	Per Cent.	Per Cent.
Illiterate, . . . . .	410	10.89	9.43
Could read and write, . . . . .	544	14.44	19.67
Attended common school, . . . . .	1,981	52.60	48.47
High school education, . . . . .	404	10.73	9.98
Attended college, . . . . .	101	2.68	2.43
Education unascertained, . . . . .	326	8.66	10.02

## ENVIRONMENT.

The urban districts furnished 3,142, or 83.43 per cent, of the first admissions, compared with 84.66 per cent the previous year; rural localities, 620, or 16.46 per cent, compared with 15.17 per cent the previous year; and there were 4, or .11 per cent, whose place of residence was unknown, compared with .17 per cent the previous year.

**THE ECONOMIC CONDITIONS**  
of these admissions are shown as follows:—

	1918.		1917.
	Cases.	Per Cent.	Per Cent.
Dependent, . . . . .	720	19.12	16.69
Marginal, . . . . .	2,289	60.78	59.03
Comfortable, . . . . .	678	18.00	21.95
Unascertained, . . . . .	79	2.10	2.33

**USE OF ALCOHOL.**

	1918.		1917.
	Cases.	Per Cent.	Per Cent.
Abstinent, . . . . .	1,487	39.49	33.55
Temperate, . . . . .	901	23.92	29.57
Intemperate, . . . . .	784	20.82	27.67
Unascertained, . . . . .	594	15.77	9.21

There is a marked decrease in the number of admissions of alcoholic cases during the year, as will be seen from the above tabulation. The admission of persons classed as intemperate was 20.82 per cent, compared with 27.67 per cent the previous year, a decrease of 6.85 per cent.

**MARITAL CONDITION.**

It appears that 1,630, or 43.28 per cent, were single at the time of admission, compared with 44.16 per cent the previous year; 1,541, or 40.92 per cent, married, compared with 40.42 per cent the previous year; 515, or 13.68 per cent, widowed, compared with 12.96 per cent the previous year; 25, or .66 per cent, separated, compared with .41 per cent the previous year; 43, or 1.14 per cent, divorced, compared with 1.47 per cent the previous year; and there were 12, or .32 per cent, whose marital condition was unknown, compared with .58 per cent the previous year.

### ALL DISCHARGES.

#### THE RESULTS OF MENTAL DISEASE

at public institutions and McLean Hospital are shown in the conditions of patients on discharge.

	1918.		1917.
	Cases.	Per Cent.	Per Cent.
Recovered, . . . . .	367	12.02	15.65
Improved, . . . . .	960	31.46	36.41
Not improved, . . . . .	1,235	40.46	30.87
Not insane at time of discharge, . . . . .	490	16.06	17.07

#### THE RECOVERY RATE

for the whole State numbered 388, or 6.96 per cent, of all admissions of insane, compared with 10.19 per cent the previous year.

The percentages of recoveries under public care and at McLean Hospital (inclusive of insane voluntary and temporary care) were:—

	1918.	1917.
	Per Cent.	Per Cent.
Of admissions, . . . . .	6.82	10.14
Of daily average number, . . . . .	2.17	3.56

#### DEATHS.

The death rate of the insane for the whole State during the year was 10.29 per cent of the daily average number on books, compared with 10.53 per cent the previous year. The percentages of deaths in public institutions and McLean Hospital were:—

	1918.	1917.
	Per Cent.	Per Cent.
Of daily average number, . . . . .	10.30	10.55
Of discharges (inclusive of deaths), . . . . .	36.32	31.65

Cerebral arteriosclerosis was present in 14.70 per cent, compared with 14.31 per cent the previous year; general paralysis in 16.54 per cent, compared with 14.02 per cent the previous year; manic-depressive in 6.03 per cent, compared with 5.86 per cent the previous year; dementia praecox in 23.09 per cent, compared with 21.40 per cent the previous year; epilepsy in 6.43 per cent, compared with 6.39 per cent the previous year; alcoholic in 3.56 per cent, compared with 4.87 per cent the previous year; senile in 14.76 per cent, compared with 18.01 per cent the previous year.

These seven forms were present in 85.11 per cent of the deaths, compared with 84.86 per cent the previous year.

#### THE AGE OF PATIENTS

at time of death was as follows:—

YEARS.	1918.	1917.
	Per Cent.	Per Cent.
Under 20, . . . . . . . . . .	.80	1.11
20 to 25, . . . . . . . . . .	2.41	1.82
25 to 30, . . . . . . . . . .	3.33	3.23
30 to 35, . . . . . . . . . .	5.34	4.28
35 to 40, . . . . . . . . . .	7.24	7.27
40 to 45, . . . . . . . . . .	10.51	7.98
45 to 50, . . . . . . . . . .	8.56	5.46
50 to 55, . . . . . . . . . .	9.94	8.91
55 to 60, . . . . . . . . . .	8.90	9.79
60 to 65, . . . . . . . . . .	9.08	12.55
65 to 70, . . . . . . . . . .	9.99	11.03
70 to 75, . . . . . . . . . .	13.04	9.39
Over 75, . . . . . . . . . .	10.86	17.18

**THE DURATION OF HOSPITAL LIFE**  
of patients who died was as follows:—

DURATION.	1918.	1917.
	Per Cent.	Per Cent.
Less than 1 month, . . . . .	15.79	14.90
1 to 3 months, . . . . .	13.04	10.91
4 to 7 months, . . . . .	9.88	9.56
8 to 12 months, . . . . .	6.78	6.45
1 to 2 years, . . . . .	15.62	15.54
3 to 4 years, . . . . .	8.27	10.97
5 to 10 years, . . . . .	11.89	13.02
10 to 15 years, . . . . .	6.78	7.80
15 to 20 years, . . . . .	5.45	3.58
20 to 25 years, . . . . .	2.93	2.82
25 to 30 years, . . . . .	1.78	2.05
30 to 35 years, . . . . .	.92	.82
35 to 40 years, . . . . .	.52	.70
40 to 45 years, . . . . .	.23	.53
45 to 50 years, . . . . .	.06	.29
50 to 55 years, . . . . .	.06	.06

Further statistical details will be found in the Appendix, beginning with Table No. 11, on which the foregoing statements and conclusions are based.

**THE FEEBLE-MINDED.**

**THE WHOLE NUMBER OF THE FEEBLE-MINDED**

under care Oct. 1, 1918, was 3,116, being 1 feeble-minded person to every 1,235 of the estimated population of the State.

The feeble-minded appear under public care in public institutions and almshouses, and under private care in private institutions. Their number and increase in these locations for the year and the last five years are shown as follows:—

	NUMBER OCT. 1, 1918.			INCREASE OVER PREVIOUS YEARS.					AVERAGE INCREASE, FIVE YEARS.
	Males.	Females.	Totals.	1918.	1917.	1916.	1915.	1914.	
School for the Feeble-minded at Waltham.	925	626	1,551	25 <sup>1</sup>	14 <sup>1</sup>	44 <sup>1</sup>	69	68	10.8
Wrentham School, . . . .	506	706	1,212	115	105	318	45	206	157.8
Hospital Cottages for Children, <sup>2</sup>	45	29	74	74	-	-	-	22 <sup>1</sup>	10.4
Almshouses, . . . . .	90	99	189	24 <sup>1</sup>	30 <sup>1</sup>	9	64	82 <sup>1</sup>	12.6 <sup>1</sup>
State Infirmary, . . . . .	-	-	-	-	-	-	-	144 <sup>1</sup>	28.8 <sup>1</sup>
Total, public, . . . . .	1,566	1,460	3,026	140	61	283	178	26	137.6
Elm Hill, . . . . .	31	11	42	2 <sup>1</sup>	4 <sup>1</sup>	1 <sup>1</sup>	5 <sup>1</sup>	1 <sup>1</sup>	2.6 <sup>1</sup>
Smaller private institutions, .	15	33	48	33	3	1 <sup>1</sup>	-	-	7.0
Total, public and private, .	1,612	1,504	3,116	171	60	281	173	25	142.0

<sup>1</sup> Decrease.<sup>2</sup> Placed again under care of Commission, April, 1918.

### THE INCREASE OF THE FEEBLE-MINDED

under care for the year was 171, compared with 60 the previous year, and 142, the average the last five years.

The number of non-resident feeble-minded was 34, compared with 36 the previous year. Of these, 31 were patients in private institutions, and 3, private patients in State institutions.

It is the policy of the State to receive feeble-minded persons from other States only when there is no school for the feeble-minded in such States, and then only in urgent cases. The non-resident patients are paid for at a rate which fully compensates the State for the cost of their maintenance.

### THE EPILEPTIC.

#### THE WHOLE NUMBER OF THE EPILEPTIC

under care Oct. 1, 1918, was 1,477, being 1 epileptic to every 2,605 of the estimated population of the State.

The epileptic appear under public care in the Monson State Hospital, the State hospitals and other public institutions, and under private care in private institutions. Details will be found under the Monson State Hospital.

Their number and increase in these locations for the year and for the last five years are shown as follows:—

	NUMBER OCT. 1, 1918.			INCREASE OVER PREVIOUS YEARS.					Average Increase, Five Years.
	Males.	Females.	Totals.	1918.	1917.	1916.	1915.	1914.	
Monson Hospital, . . .	455	499	954	88 <sup>1</sup>	49	22 <sup>1</sup>	52	41	6.4
Public institutions for insane, .	234	209	443	7 <sup>1</sup>	31 <sup>1</sup>	57	22	5	9.2
Schools for the feeble-minded, .	8	5	13	—	—	—	21 <sup>1</sup>	71 <sup>1</sup>	18.4 <sup>1</sup>
Hospital Cottages, . . .	38	19	57	57	—	—	—	—	11.4
Total, public, . . .	735	732	1,467	38 <sup>1</sup>	18	35	53	25 <sup>1</sup>	8.6
Private institutions, . . .	6	4	10	3	4 <sup>1</sup>	1	3 <sup>1</sup>	1	.4 <sup>1</sup>
Total, public and private, .	741	736	1,477	35 <sup>1</sup>	14	36	50	24 <sup>1</sup>	8.2

<sup>1</sup> Decrease.

In addition, the overseers of the poor report (March 31, 1918), 57 epileptics in city and town almshouses and private families.

#### THE DECREASE OF THE EPILEPTIC

under care for the year was 35, compared with an increase of 14 the previous year, and 8, the average increase the last five years.

#### REPORT OF THE PATHOLOGIST.

*To the Commission on Mental Diseases.*

Following is the pathologist's tenth report and the ninth to cover a full year of work.

The duties of the pathologist to the Commission, originally appointed May 1, 1909, have been designated as follows: (1) supervision of the clinical, pathological and research work in the various institutions under the Commission's supervision and control; (2) visits to the institutions from time to time; and (3) reports to the Commission comprising conditions, observations and such recommendations as result therefrom.

These duties have been modified, and the entire scope of the pathological service has been broadened, since the establishment of the Psychopathic Hospital and the appointment of the Commission's pathologist to the directorate of the hospital. The hospital performs, besides its local metropolitan district functions, certain State-wide clinical and research functions, including preparatory and extension training courses for State hospital physicians. The present report deals with these latter functions under separate headings.

### I. GENERAL.

It is matter for quite unusual congratulation that the war conditions have not definitely interfered with the progress of the pathological division. Although the undersigned was appointed pathologist in 1909, his duties were of a general nature (except for work on the plans of the Psychopathic Hospital) until his appointment as director of the Psychopathic Department of the Boston State Hospital; with that appointment the Psychopathic Hospital became in effect the research institute of the Commission on Mental Diseases. Two more years passed, however, before the Commission was able to appoint special officers on the pathological service besides the pathologist. In July, 1914, the assistant pathologist, Dr. Myrtelle M. Canavan, was appointed, together with a clerk and technician. The special achievement in 1915 was the appointment of a special officer (now Lieut. Harry C. Solomon) to study the therapy of neurosyphilis systematically. In 1916 the pathological work of the western district of the State had been developed, and, by the courtesy of the trustees of the Grafton State Hospital, special wards for the treatment of syphilis of the nervous system were opened in the Summer Street building. In 1917 the advance upon the scientific side of the State's work was more theoretical than practical; but it is safe to say that the legislative provision for extension of psychopathic hospital facilities over the State at large will in future bear even more fruit than the other advances here noted. Although a temporary block in the advance had to be reported in last year's report, owing to the departure of Lieut. Harry C. Solomon and Capt. Douglas A. Thom from the pathological service to go into the subsection of head surgery and the division of neuropsychiatry of the Surgeon-General's office, respectively, yet the syphilis work was kept up by the efforts of the chief executive officer of the Psychopathic Hospital, Dr. Lawson G. Lowrey. In 1918 it is possible to record a further consolidation of this work through the appointment of an assistant pathologist to the Commission, Dr. Oscar J. Raeder, whose functions as pathologist to the Boston State Hospital combine therapeutic with pathological work.

An appropriation of \$7,000 for 1918 was granted by the Legislature, being an advance of \$2,000 over the appropriation for 1917, due to the special arrangements which had to be made for the purchase of salvarsan, and due to general advances for our work. This appropriation is for the purpose of investigation as

to the nature, causes, results and treatment of mental disease and defect, and for the publication of the results of said investigation. A considerable portion of the sum is devoted to the purchase of salvarsan used in the systematic investigation and treatment of syphilitic disease of the nervous system.

## II. ROUTINE OF THE PATHOLOGICAL SERVICE: AUTOPSIES.

Since the establishment of the pathological service in 1914, during a period of fifty-three months 980 autopsies have been performed, in the vast majority of cases by the service officers, in some instances supplemented by hospital pathologists acting as prosector. It will be noted that these autopsies are almost all autopsies which would not have been performed except with the facilities of the Commission's pathological service, for the majority of these autopsies, as the table below shows, have been performed in institutions that have no pathological services of their own. Where an institution has too few deaths, or for other reasons cannot maintain a pathological laboratory, the Commission has stepped in to round out the pathological work of the State, and to give uniform advantages of pathological examination to all institutions.

During the year ending Nov. 30, 1918, there were 285 autopsies, being 20 more than the number performed in the previous year.

The following table shows the number of autopsies performed in the different institutions (by the pathological service of the Commission, and exclusive of autopsies performed by the staffs of institutions):—

Grafton Hospital,	96
Worcester Hospital,	40
Medfield Hospital,	35
Boston Hospital,	34
Psychopathic Department, Boston Hospital,	19
Foxborough Hospital,	19
Bridgewater Hospital,	17
Monson Hospital,	8
Danvers Hospital,	4
Massachusetts School for the Feeble-minded,	3
Northampton Hospital,	3
Wrentham School,	2
Westborough Hospital,	1
Miscellaneous,	4
Total,	285

*Table showing Proportion of Autopsies to Deaths in Institutions.*

	Total Number of Deaths for Year.	Total Number of Autopsies.	Per Cent.
Foxborough Hospital,	49	30 (19 <sup>1</sup> )	61
Grafton Hospital,	210	96 (73 <sup>1</sup> )	45
Boston Hospital,	268	87 (34 <sup>1</sup> )	32
Worcester Hospital,	270	81 (40 <sup>1</sup> )	30
Psychopathic Department, Boston Hospital,	73	19 <sup>1</sup>	26
Danvers Hospital,	260	62 (41 <sup>1</sup> )	23
Bridgewater Hospital,	73	17 <sup>1</sup>	23
Medfield Hospital,	172	35 <sup>1</sup>	20
Westborough Hospital,	167	33 (11 <sup>1</sup> )	19
Monsen Hospital,	187	28 (8 <sup>1</sup> )	14
State Infirmary, Mental Wards,	60	6	10
Wrentham School,	41	2 (?)	4
Taunton Hospital,	229	8	3
Gardner Colony,	32	1	3
Massachusetts School for the Feeble-minded,	146	3 <sup>1</sup>	2
Northampton Hospital,	153	3 <sup>1</sup>	1
Miscellaneous,	-	4	-
	2,390	515	-
Total number of deaths in State hospitals in Massachusetts in 1918, fiscal year,			2,390
Total number of autopsies performed,			515
(a) By laboratories independent of Commission,			230
(b) By Commission,			285

<sup>1</sup> Done by Commission.

The routine of the pathological service naturally deals primarily with cases of sudden death, not only those which are medicolegal, in the narrow sense of a suspicion of foul play, but also other sudden deaths where there might be a question of negligence or accident. The following table gives data concerning sudden deaths reported to the Commission:—

Sudden deaths reported to Commission,	117
Number autopsied,	50
Number autopsied by service,	35
Found dead,	43
Organic heart disease,	28
Miscellaneous and unknown,	19
Suicides,	18
Acute infection,	13
Arteriosclerosis or coronary,	13
Complicated by fractures,	12
Epilepsy and asphyxia,	12
General paresis or tabes,	7
Choked by food,	6
Homicides,	2
Carcinoma,	2
Pernicious anemia,	1

In addition to the 285 autopsies, there were viewings of bodies in institutions not followed by autopsies by the pathological service, though occasionally followed by autopsies by medical examiners.

The problem of sudden deaths in institutions is always difficult. Of course, it is generally understood that many cases of sudden death are by no means worthy of medicolegal suspicion. We are now able to present five years' work upon sudden deaths, both medicolegal and otherwise. We present an analysis of 229 cases in the accompanying analytical table, which gives these cases in the order of the frequency of their causes of death in the whole series.

*Analysis, Autopsied Cases (Sudden Deaths).*

	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	Total.
Heart lesions, . . . . .	4	9	13	13	16	55
Acute infections, . . . . .	11	13	8	4	9	45
Foreign bodies in larynx, . . . . .	3	2	7	2	2	16
Epilepsy, . . . . .	1	6	—	5	4	16
General paresis, . . . . .	3	1	2	6	1	13
Homicides, . . . . .	3	3	3	1	2	12
Suicides, . . . . .	3	3	1	3	3	13
Tuberculosis, . . . . .	1	2	2	3	2	10
Fractures, . . . . .	1	3	1	1	2	8
Cerebral hemorrhages, . . . . .	—	—	5	—	1	6
Thrombosis, . . . . .	2	—	—	2	—	4
After tube feeding, . . . . .	1	—	1	1	—	3
Burns, . . . . .	1	1	—	—	—	2
Hemorrhage, . . . . .	1	—	1	—	2	4
Brain tumor, . . . . .	—	—	2	—	—	2
Asphyxia, . . . . .	—	1	—	1	—	2
Katatonic "Hirntod," . . . . .	—	—	1	1	—	2
Acute mania, . . . . .	1	—	—	1	—	2
Collapse after bath, . . . . .	—	1	—	—	—	1
Fall, . . . . .	1	—	—	—	—	1
Edema brain, . . . . .	1	—	—	—	—	1
Arteriosclerosis, . . . . .	1	—	—	—	—	1
Ruptured bladder, . . . . .	—	—	1	—	—	1
Carcinoma, . . . . .	—	—	1	—	2	3
Drowned (accident), . . . . .	—	—	—	1	—	1
Pernicious anemia, . . . . .	—	—	—	—	1	1
Acute gastritis, . . . . .	—	—	—	—	1	1
Edema glottis, . . . . .	—	—	—	—	1	1
Ruptured spleen, . . . . .	—	—	—	—	1	1
Ruptured heart, . . . . .	—	—	—	—	1	1
Totals, . . . . .	39	45	49	45	51	229

Relative to mental diagnoses in suicides, I was able last year to sound the note of warning that vigilance should not be relaxed from dementia præcox cases. Manic-depressive psychosis now leads dementia præcox in the statistics. We are now able to present five years' analysis of suicides with respect to the mental diagnoses.

*Analysis of Suicides (Autopsied and Non-autopsied).*

	1913-14.		1914-15.		1915-16.		1916-17.		1917-18.		Total.
	Male.	Female.									
Dementia praecox, . . . .	1	-	1	-	3	-	2	1	3	4	15
Manic depressive, . . . .	-	2	2	2	3	1	2	4	3	3	22
General paresis, . . . .	-	-	-	1	-	-	-	-	-	-	1
Epilepsy, . . . . .	-	-	-	-	1	-	-	-	1	-	2
Diagnosis unknown, <sup>1</sup> . . .	3	3	-	-	1	-	1	1	-	-	9
Imbecile, . . . . .	-	-	-	-	-	-	1	-	3	-	4
Psychosis with arteriosclerosis, .	-	-	-	-	-	-	-	-	1	-	1
Totals, . . . . .	4	5	3	3	8	1	6	6	11	7	54

Diagnoses in suicides in State hospitals, 54.

<sup>1</sup> Death before a definite mental diagnosis determined.

Two hundred and twenty-one accidents were reported to the Commission during 1918, as against 235 in 1917, 304 in 1916, 313 in 1915, and 364 in 1914. There is still so much variety in the standards of reporting that it is hard to interpret the figures. The total number of fractures and dislocations has diminished. This may be regarded as a very good sign of effective treatment. Dislocations may be regarded as even more an index of ungentle nursing than are fractures. There were but twelve dislocations reported from the entire State.

## III. ROUTINE OF THE PATHOLOGICAL SERVICE: CASUALTIES.

We have now had five years' experience in the special analysis of the casualties of the institutions. The casualty records of each institution are analyzed by means of an analytical chart of casualties in institutions (being Chart G of the Commission's pathological charts), under three headings, namely, statistical, nature and severity, and manner of injury:

## CASUALTY TABLE A.

*Casualties arranged by Institutions.*

INSTITUTION.	Males.	Females.	Total Number of Patients.	Total Number of Accidents.
Medfield Hospital, . . . . .	29	20	49	49
Taunton Hospital, . . . . .	18	9	27	27
Boston Hospital (main), . . . . .	12	9	21	21
Westborough Hospital, . . . . .	6	12	18	18
Monson Hospital, . . . . .	7	9	16	16
Grafton Hospital, . . . . .	6	10	16	16
Danvers Hospital, . . . . .	7	6	13	13
Worcester Hospital, . . . . .	2	9	11	11
Wrentham School, . . . . .	8	2	10	10
Massachusetts School for the Feeble-minded,	6	1	7	7
Foxborough Hospital, . . . . .	3	4	7	7
State Infirmary, Mental Wards, . . . .	2	4	6	6
Psychopathic Department, Boston Hospital,	4	1	5	5
Gardner Colony, . . . . .	4	1	5	5
Northampton Hospital, . . . . .	5	—	5	5
Bridgewater Hospital, . . . . .	3	—	3	3
Arlington Health Resort, . . . . .	1	1	2	2
Totals, . . . . .	123	98	221	221

## CASUALTY TABLE B.

*Casualties arranged by Institutions and by Severity of Injury.*

	Fractures.	Dislocations.	Gunshot.	Other Severe Injuries.	Total Severe Injuries.	Less Severe Injuries.
<i>Receiving Institutions.</i>						
Boston Hospital:—						
Main Department, . . . . .	15	4	—	—	19	3
Psychopathic Department, . . . . .	4	—	—	1	5	—
Danvers Hospital, . . . . .	11	—	—	—	11	2
Northampton Hospital, . . . . .	4	—	—	2	6	—
Taunton Hospital, . . . . .	10	—	—	1	11	16
Westborough Hospital, . . . . .	15	—	—	1	16	3
Worcester Hospital, . . . . .	10	—	—	1	11	—
<i>Institutions chiefly for Transfers.</i>						
Grafton Hospital, . . . . .	13	2	—	—	15	2
Medfield Hospital, . . . . .	13	3	—	7	23	30
Gardner Colony, . . . . .	1	—	—	2	3	2
Foxborough Hospital, . . . . .	6	—	—	—	6	1
State Infirmary, Mental Wards, . . . . .	6	—	—	—	6	—
Bridgewater Hospital, . . . . .	3	—	—	—	3	—
<i>Institutions for the Feeble-minded.</i>						
Massachusetts School, . . . . .	4	1	—	1	6	2
Wrentham School, . . . . .	2	1	—	7	10	1
<i>Special Public Institutions.</i>						
Monson Hospital, . . . . .	11	1	—	1	13	3
<i>Special Private Institutions.</i>						
Arlington Health Resort, . . . . .	—	—	—	2	2	—
	128	12	—	26	166	65

## CASUALTY TABLE C. *Manner of Injury.*

#### IV. INVESTIGATIONS.

The investigative function of the pathological service may be said to execute the provisions of section 6, chapter 504, Acts of 1909, which section reads in part as follows:—

The board shall encourage scientific investigation by the medical staffs of the various institutions under its supervision, shall publish from time to time bulletins and reports of the scientific and clinical work done therein, . . .

In compliance with these provisions the Commission has established a bulletin under the editorship of Drs. George M. Kline, Walter E. Fernald and E. E. Southard. This bulletin is designed to include such publications by the officers of the different institutions as may be deemed worthy of reprinting. The editorial board has for the most part omitted only papers of a fragmentary and propagandist nature, or papers which are bound to secure, owing to their mode of publication elsewhere, a sufficiently wide circulation.

The quarterly bulletin is designed to take the place of the collected publications of the Commission and of the institutions which have been issued in previous years. At the date of writing, Volume I of the Quarterly Bulletin has been issued in two double numbers, including Nos. 1 and 2, and 3 and 4, respectively, and contain a selection of forty-five papers from the number published.

The estimates for scientific investigation, amounting in the years following 1911 to \$2,500 annually, were increased in 1915 to \$5,000 on account of the investigation and treatment of syphilis of the nervous system then deemed desirable. The estimate for 1917 was increased to \$7,000 largely on account of the increased usage of syphilis therapy. No comprehensive account of the investigations undertaken under the appropriations which have been duly granted will be given in this report. The general nature of these investigations can be seen from the list of publications given below in Section VII of this report.

Notes concerning hygienic work in the institutions will be found in the excerpts from reports of institutions given below.

Further progress has been made upon the brain photograph collection, which will at the end of the year stand at over a thousand cases. Upon the basis of this fundamental collection

a case book on "The Anatomy of Mental Diseases" is in preparation (E. E. Southard and M. M. Canavan).

Material for the second Waverley research monograph in the pathology of the feeble-minded is complete, including the plates.

Considerable time and energy have been spent bringing together the experience of the institutions, and especially that of the Psychopathic Hospital, in psychiatric diagnosis. A somewhat elaborate paper with historical and logical analysis was presented before the Association of American Physicians (to be published shortly in the "Journal of Clinical and Laboratory Medicine") on the general logical processes and process-types of clinical diagnosis with especial reference to psychiatry. The major process-types of clinical diagnosis are enumerated and briefly discussed in the paper in question, and the necessity is made manifest of employing in psychiatric diagnosis chiefly the method of diagnosis by exclusion. That is to say, the methods of diagnosis by inspection and by direct comparison of a few obvious signs and symptoms with the descriptions in the books do not at all suffice for the purpose of the modern psychiatrist. He must, as a rule, resort to diagnosis by exclusion. Moreover, because there is hardly a single "indicator" symptom in psychiatry, the psychiatrist is forced to employ the method of exclusion in a systematic manner. This process of systematic exclusion of disease types in order was termed, in the paper in question, *diagnosis per exclusionem in ordine*.

A brief sketch of the method as applied to psychiatry, with an enumeration of the main orders, genera and species of mental diseases, was given to the nervous and mental section of the American Medical Association at its 1918 meeting, in a paper on "Mental Diseases versus Insanity: The Duty of the General Practitioner to Psychiatric Diagnosis." A study of the current American textbooks shows how well-nigh unanimous is the view of American psychiatrists as to the main features of classification. The effort of the two papers just mentioned has not been to make a new classification; the effort has, on the contrary, been to show how, that is, in what order, the different entities of any classification ought to be considered. It should, of course, be added that no one can prescribe a final order. The order adopted is one based upon the availability and reliability of tests at the present day. To-morrow the order may be changed. There may be interpolations and subtractions, but the principle of diagnosis by exclusion in order, it seems to the writer, might

well remain, despite the modification in details which progress will compel.

These methods have been in practical use in the great diagnostic sifting machine found in operation at the Psychopathic Hospital.

In recent reports I have often had occasion to call attention to the improvement in efficiency caused by the gradual drawing together of clinical and laboratory interests in the State institutions. This tendency is still strongly evidenced. It is to be hoped that the Commission's research institute facilities (in the shape of its unexcelled pathological service maintained at high standard, and its clinical research opportunities in the wards and out-patient department of the Psychopathic Hospital) will produce more and more neuropsychiatric leaders in the country, from whom may be recruited the heads of psychopathic hospitals, psychiatric clinics, and other special mental hygienic institutions. It is obvious that the problems of reconstruction of nervous and mental patients after the war will demand the services of such men.

It has been pointed out that the development of high-grade standards of care and treatment of nervous and mental cases in the army will react upon civilian conditions after the war, inasmuch as physicians accustomed to these high standards of psychiatric care and treatment will not rest satisfied until analogous conditions get established in their home States and cities.

A good reputation for advanced work is now borne in national associations by a number of our State products, who have made numerous communications and written many papers for national associations and periodicals (*e.g.*, Maj. Herman M. Adler, Dr. Lawson G. Lowrey, Dr. Abraham Myerson, Lieut. Harry C. Solomon, Capt. Douglas A. Thom, and Maj. Frankwood E. Williams).

I may refer to last year's report for a list of physicians who have embraced the opportunities afforded by the Psychopathic Hospital work in preparatory and extension training courses. To that list of 18 may be added the following, who were sent by the division of neurology and psychiatry for army instruction courses: —

Capt. C. B. Craig.	Lieut. R. G. Provost.
Lieut. C. J. Dalton.	Lieut. Charles E. Roderick.
Lieut. Edward French.	Lieut. Charles C. Rowley.
Lieut. James A. Gould.	Lieut. William T. Rumage.
Lieut. Carl B. Hudson.	Capt. Douglas A. Thom.
Lieut. M. Levy.	Lieut. Henry R. Viets.
Lieut. C. B. Partington.	Capt. O. G. Wiedman.
Lieut. Arthur P. Powelson.	Lieut. George B. Wilbur.

The following table shows the routine work of the investigative staff of the Commission:—

Visits to institutions, . . . . .	297
By pathologist, . . . . .	1
By assistant pathologists, . . . . .	291
By syphilographer, . . . . .	5
Autopsies in cases of sudden deaths, . . . . .	85
Severe accidents in institutions, . . . . .	166
Less severe accidents, . . . . .	65
Total accidents, . . . . .	221
Circular letters, . . . . .	2
Publications, . . . . .	51

## V. EXCERPTS FROM ANNUAL REPORTS OF INSTITUTIONS.

### *Worcester State Hospital.*

The general health of the hospital has been quite good during the year. One nurse contracted diphtheria and was sent to the isolation hospital. When the epidemic of Spanish influenza first broke out in our district, the institution was placed under a fairly strict quarantine. As the disease first appeared on the receiving wards, we believe it was brought to us by newly admitted patients. It spread somewhat to other parts of the institution, but at no time reached serious proportions. There was a total of 140 cases, with 2 deaths from influenza and 31 due to complications from pneumonia.

Intensive treatment of patients with salvarsan for neurosyphilis has been given by Dr. Arthur H. Mountford, senior assistant physician, and Dr. Ada F. Harris, pathologist. During the year 26 patients received intravenous injection of diarsenol and arsphenamine. Eight have received amounts under 10 grams, and the remainder amounts varying from 10 to 30 grams each, in weekly doses of 4 grams to six-tenths of a gram in saline solution. The cases were not selected, but all showed evidence that the disease was of quite long standing. Four showed clinical

improvement, and were discharged to the out-patient department for weekly treatments. One trephine operation was performed, and five intraventricular treatments of 15 cubic centimeters diarsenolized serum, reinforced with 5 milligrams diarsenol, were given to one paretic. This man exhibited a euphoric attitude and entertained many grandiose ideas. He was incoherent and rambling in conversation, untidy, noisy and excited in manner at the time of operation. While he still retains the clinical symptoms and many of his grandiose ideas, the improvement in his condition is marked. He has become subdued in manner and enjoys partial parole. There is nothing special to be mentioned about the other cases treated.

Our dentist has visited the hospital Tuesday of each week, and reports the following work done for patients who are not financially able to pay for the attention given: cleanings, 325; extractions, 160; amalgam fillings, 325; cement, 150; treatments, 125; pyorrhœa alveolaris treated, 200.

One of the urgent needs of our district is a psychopathic department where all persons apprehended because of irregular conduct due to some mental disturbance could be sent for care and observation until recovery takes place or proper disposition of the case is made. The institution on Summer Street could be converted into a psychopathic hospital at a much less expense than would be incurred by the erection of a new building. It is well located, which is an essential feature, as such an institution should be near the center of population for the convenience of committing magistrates and officers, and to promote frequency of visitation of the friends and relatives of patients. It would be easily accessible for medical men in the community to attend clinics and become better acquainted with the symptoms of incipient mental disease, and in co-operation with the hospital authorities it would be a potent factor in the education of the general public relative to the principles of mental hygiene. Not only would great benefit result from the establishment of such a department where intensive study and scientific investigation could be made of acute cases, but our receiving wards would not be subjected to the confusion and disturbance produced by the delirious and turbulent cases that make up such a large proportion of emergency admissions.

The laboratory work has been impeded by the urgent demand of the pathologist's assistance on the clinical staff and the lack of a trained technician.

*Taunton State Hospital.*

The hospital was attacked by the influenza the last of September, and the epidemic following was the most extensive, severe and fatal in the history of the hospital. The first case developed at the Simeon Borden, Sr., Colony, in the family of our head farmer, Mr. Hiltz. This case was doubtless acquired in the city of Taunton, where the epidemic was raging before the hospital was affected.

The following statistics clearly show the severity of the epidemic: —

*Number of Cases.*

	Men.	Women.	Total.
Patients, . . . . .	163	153	316
Employees, . . . . .	18	39	57
Totals, . . . . .	181	192	373

*Number of Deaths.*

Patients, . . . . .	31	21	52
Employees, . . . . .	2	3	5
Totals, . . . . .	33	24	57

*Danvers State Hospital.*

The work of the pathological laboratory has been seriously handicapped. During the greater part of the year the hospital has been without the services of a regular pathologist. Very little could be attempted by the clinical men except on time stolen from ward work.

Especially worthy of note is the decrease of admissions of alcoholics during the year. Fifty-five cases, 15 of whom were chronic addicts repeatedly committed to this hospital, were admitted, as compared with 91 the previous year. The percentage, 7.4 of total admissions, is the lowest in the records of the hospital.

There was also a reduction in the number of cases with syphilis. The total number of cases showing a positive Wassermann in the blood or spinal fluid comprised 12 per cent of total admissions, as compared with 17 per cent last year.

It will be interesting to compare this with the incidence of alcoholism and syphilis in coming years. The social reformer

cannot overlook the coincidence of these changes with the improved environmental circumstances of that class which usually furnishes the bulk of admissions in these disease groups. The great labor demand, and the opportunity for every one capable of useful occupation to command unusually high wages, have undoubtedly resulted in better conditions of living among that class of workers who, through lack of training, capacity or skill, were previously the lowest of wage earners. The victims of alcoholic and allied excesses are largely derived from the ranks of those who lead an uncertain, hand-to-mouth sort of existence, without prospect or hope of better things. The most common reply of the alcoholic to the question what led him to drink is, "To forget my troubles." Does the lowered incidence of alcoholism this year mean that troubles failed of their usual effect because of assured employment, higher wage and generally improved conditions of living?

Fifty-two patients, 44 males and 8 females, have received treatment for syphilis. Seven of these cases gave a positive reaction in the blood serum only. The remainder showed characteristic changes in the spinal fluid. These cases may be classified according to diagnosis, as follows: —

General paralysis,	.	.	.	.	.	.	.	.	.	.	.	.	29
Taboparesis,	.	.	.	.	.	.	.	.	.	.	.	.	2
Tabes dorsalis,	.	.	.	.	.	.	.	.	.	.	.	.	6
Cerebral syphilis,	.	.	.	.	.	.	.	.	.	.	.	.	7
Juvenile paresis,	.	.	.	.	.	.	.	.	.	.	.	.	2
Chronic alcoholic hallucinosis,	.	.	.	.	.	.	.	.	.	.	.	.	1
Dementia præcox,	.	.	.	.	.	.	.	.	.	.	.	.	1
Feeble-minded,	.	.	.	.	.	.	.	.	.	.	.	.	2
Constitutional inferiority,	.	.	.	.	.	.	.	.	.	.	.	.	2

The method of treatment followed is similar to that used at some of the leading general hospitals. Intravenous administration of diarsenol was given twice weekly, with four-day intervals between treatments, for a period of six weeks. Then followed a ten weeks' course of gray oil intramuscularly administered once weekly, and ascending doses of a saturated solution of potassium iodide. An interval of two weeks without medication followed the sixteen weeks' course of treatment. The routine of treatment was resumed after this rest, and this procedure was repeated until improvement and discharge, or until the Wassermann proved negative.

Four cases of tabes dorsalis were treated intraspinously, the procedure being as follows:—

Approximately 200 cubic centimeters of blood were taken from a sufficient number of cases under treatment to secure the required amount of prepared blood serum by pooling it. The following day 5 millimeters of the regular solution of diarsenol were added to 12 cubic centimeters of the serum, and allowed to flow into the spinal canal by gravity after the withdrawal of 20 cubic centimeters of fluid. The treatment was repeated at intervals of ten days, and was accompanied by the administration of potassium iodide in ascending doses.

In two cases the development of an intense jaundice caused the treatment to be suspended. These rapidly cleared up when treatment was discontinued. In a number of instances severe vasomotor reactions occurred after the treatments, but these phenomena lasted only an hour or two, and in no case resulted seriously.

The results may be summarized as follows:—

	Number of Cases.	Number showing Remis- sions or Improve- ment.	Im- proved and able to leave Hospital.	Died.	Remain- ing in Hospital.	Number whose Treat- ment recently began.
General paralysis, . . .	29	4	2	4	24	9
Cerebral syphilis, . . .	7	3	—	—	7	3
Tabes dorsalis, . . .	6	2	—	—	6	—
Taboparesis, . . .	2	—	—	1	1	—

Subcutaneous infusion of normal saline solution gave excellent results in certain toxic or exhaustion conditions. Notable improvements occurred in eight cases of infection psychosis. The same treatment was followed by amelioration of symptoms in four cases of dementia praecox with excitement. A striking change for the better occurred in one case marked by long-standing catatonic rigidity.

In four cases of delirium tremens accompanied by high blood pressure, excellent results were obtained by withdrawing 20 to 30 cubic centimeters of spinal fluid once in twenty-four hours. Excitement was allayed, and hallucinations entirely disappeared within forty-eight hours after the first withdrawal of fluid. In two of the cases the withdrawal was repeated once.

A summary of the Wassermann test on the blood serum and

spinal fluid is given in the following table. We may say that we found this test practically always in agreement with the clinical picture and the spinal fluid tests made in the laboratory,—*i.e.*, gold sol, cell count, albumen, globulin, etc.

	MALES.		FEMALES.		TOTALS.	
	Number.	Per Cent.	Number.	Per Cent.	Number.	Per Cent.
Cases tested, . . . . .	328	-	338	-	666	-
Wassermann serum, positive, . . . .	62	18.9	18	5.3	80	12.0
Wassermann serum, negative, . . . .	259	78.9	314	92.9	573	86.0
Wassermann serum, doubtful, . . . .	7	2.2	6	1.8	13	2.0
Wassermann spinal fluid, positive (agree), .	37	94.9	6	75.0	43	85.1
Wasserman spinal fluid, positive (disagree),	2	5.1	2	25.0	4	15.0
Wassermann spinal fluid, negative (agree), .	16	61.6	13	46.4	29	54.0
Wassermann spinal fluid, negative (disagree),	10	38.4	10	43.6	20	41.0

Volumes 21 and 22 of autopsy records have been finished, with complete abstracts of cases and histological examinations. Index volume No. 4 has also been added, including cases No. 1500–2000.

An investigation was carried on during the latter part of the year to determine any relation existing between dental malformations, such as impacted teeth, etc., and mental states. Twenty dementia praecox patients were examined by X-ray, and in this number were found six with impacted molars. These were all extracted. In no case was extraction followed by improvement or change in mental condition. The only reaction was a just complaint by one patient that he had been deprived of a sound, useful tooth. The number of cases is too small to be of positive value in drawing conclusions as to the influence of such oral conditions in psychoses, but the results did not encourage further experimentation of the kind. This experiment was undertaken at the solicitation of a patient's relative, who had come under the influence of recent medical literature in popular magazines,—something of the nature of "dust that is a little gilt" that appeals strongly to those who regard mental disorders as being due to mysterious agencies or causes.

*Westborough State Hospital.*

The latter part of September and early part of October, during the first wave of the influenza epidemic, the laboratory force gave some 1,500 injections of influenza bacilli vaccine to 507 patients and employees as a protective measure against the prevailing disease. The vaccine (Leary's) was furnished by the Massachusetts State Department of Health. The epidemic, fortunately, was not severe; at that time only 38 cases were so diagnosed. The immediate isolation of the infected cases, quarantine of the wards against visitors, and the voluntary limitation, as far as was possible, of employees to the hospital grounds, it is believed, were great factors in limiting the spread of the disease at the hospital. As to the value of the vaccine employed, judgment is difficult. During the period when vaccine was employed the number of employees averaged 250, of which 74 were vaccinated. Nine of these vaccinated employees developed the disease, but none of these cases could be regarded as severe. Of the 167 unvaccinated employees, 9 developed the disease, 3 of which had severe complications (pneumonia 2, middle ear disease and pleurisy with effusion, 1). Four hundred and thirty-three patients received the vaccine. In all, 28 patients developed the disease, 2 of which had pneumonia complications, with 1 death. Ten unvaccinated patients developed the disease before vaccinations were begun; 5 of these had severe complications (pneumonia, 4; meningitis, 1). Of the remaining 10 cases, 2 had pneumonic complications.

*Grafton State Hospital.*

The treatment of neurosyphilitic cases has been carried on as usual during the year, at the Worcester Department, under direction of the pathologist to the Commission on Mental Diseases. The work was done by Dr. Ada F. Harris up to the time she resigned, April 20, 1918; since then Dr. O. J. Raeder has been giving the treatments.

Therapeutic measures, pharmacologically, have consisted of the use of arsphenamine (Dioxy-diamido arsenobenzol), mercury and kalium iodid. The main whip has been arsphenamine. The latter has been applied for the most part intravenously, but it has also been given intraventricularly, intraspinously and subdurally. Mercury has always been given intramuscularly, and kalium iodid *per orem*. The total number of cases treated during the year was 57; of these, 32 were new cases.

Two cases of paresis, on treatment five and seven months only, have been discharged improved to report for observation at the Psychopathic Hospital, Boston. Two other paretic cases under treatment four and eighteen months, respectively, have shown some mental and physical improvement. Four paretics during the year are working and doing well. One other, on treatment a year, was doing well when he eloped.

One case of secondary syphilis has shown marked improvement; two cases of neurosyphilis, treated eight to fifteen months each, have shown improvement; also two cases of epilepsy (sero-positive) have shown marked change for the better (fewer convulsions). *Thus fourteen cases, or 43 per cent, have been favorably influenced by treatment of four to twelve months' duration.*

Of the cases classed as unchanged there are 18. Putting aside 8 cases as too new for an estimate of change of condition, we have remaining 10 cases which held up well in the stationary class. Their period of treatment varies from eight to twenty-four months, — an average of 14.6 months.

Eight cases have grown distinctly worse, and 5 cases of paresis died of that disease. Three others died, — one, an out-patient, by suicide; one, a promising case, from influenza; and another from acute somatic disease.

The number of deaths from Nov. 30, 1917, to Dec. 1, 1918, was 212; the number of autopsies, 95, making 45 per cent.

#### *Medfield State Hospital.*

On September 21, 10 cases of influenza were recognized among our employees, and within a week 41 employees were ill. The epidemic had practically run its course by November 1, although an employee came to the hospital with the disease on November 18. The total number of cases of influenza was 417, with 60 deaths, — employees, male, 42 cases, with 3 deaths; female, 57 cases, with 2 deaths (1 male employee died away from the hospital); patients, male, 185 cases, with 36 deaths; female, 133 cases, with 19 deaths.

The disease attacked our robust patients, and, on the male side, particularly those who were accustomed to work about the grounds, on the farm and at various other outdoor work. The greatest mortality occurred in those patients between the ages of thirty and thirty-five; the youngest was eighteen and the oldest seventy-five.

Apparently no definite conclusions could be reached as to the benefit of the vaccine treatment.

The percentage of deaths among the insane patients was 17.2 per cent, being much greater than the percentage for the employees, and yet it was the insane patients who received the greatest amount of open-air treatment.

There were 32 autopsies performed by the pathologist of the Commission on Mental Diseases. It had been hoped during the year that a laboratory would be fitted up and a pathologist obtained. Supplies for the laboratory were secured, but on account of the inability to get workmen, such as masons and carpenters, the building changes necessary for the installation of the laboratory apparatus could not be made. I am still of the opinion that our medical work suffers on account of the absence of a laboratory and pathologist.

#### *Gardner State Colony.*

The general health of the patients and employees has been good except for the epidemic of influenza which occurred in October. During this epidemic nearly 200 cases occurred and 12 deaths resulted. Only a very strict quarantine and serum inoculation prevented a larger number. Doubt has often been expressed as to how effective a quarantine for influenza might be. At this institution, built on the widely detached colony plan, it was possible to quarantine not only the entire colony, but each detached colony, with the result that in those colonies, with one exception, in which cases had not already arisen before the quarantine was effective, no cases occurred.

#### *Monson State Hospital.*

The work of the laboratory has been kept up under Mrs. Hoga-boom's care as technician, and the inoculations for typhoid prevention, as well as those for smallpox, have been carefully attended to in every instance.

#### *State Infirmary.*

The influenza began with us on September 18, and through the courtesy and co-operation of Dr. Timothy Leary of Tufts Medical School we were able to secure the Leary vaccine at the very start, and inoculated the greater part of the employees.

Whatever may be thought regarding the merits of the Leary vaccine, or the conclusions derived from statistics in general, and although it is recognized that in some districts and with different groups of people the severity of the epidemic may not

have been as marked as in others, we report at the infirmary that 2,188 persons were inoculated and the spread of the disease ceased soon after. There were but 317 cases, 97 of which, with 15 fatalities, were not contracted in the institution, but were brought in from outside towns. There were but 32 deaths, and only 19 that were inoculated later came down with the disease.

A new X-ray apparatus has been added to the hospital equipment.

*State Farm at Bridgewater.*

In September influenza, having already gained entrance to the prison department, made its appearance here despite quarantine regulations, and before subsiding had infected 292 patients and nearly one-third of our employees. The outdoor sleeping porches were fully utilized, and were of special value in the treatment of those showing pulmonary complications.

Invading the hospital on September 19, the epidemic reached an apex on September 29, when 48 new cases were admitted to the hospital. Following this there was a gradual lessening in numbers, and the last case, received during what may be termed the acute phase of the epidemic, was admitted on October 22. Vaccination, then in the experimental stages of development, was not employed. There still appears to be a rather wide difference of opinion regarding its value either as a prophylactic or as a means of modifying the course of the disease, and it is felt that its use would not have materially altered our conditions.

The tables presented below furnish a summary of admission by weeks and of the deaths occurring during the same periods.

*Cases of Influenza.*

Week ending September 26,	72
Week ending October 3,	169
Week ending October 10,	33
Week ending October 17,	13
Week ending October 24,	5

*Deaths from Influenza and Complications.*

Number of influenza patients who developed pneumonia,	58
Number of influenza patients who developed pneumonia and died,	27
Number of influenza patients who died, with complications other than pneumonia,	8
Total number of deaths in which influenza was the direct or indirect cause,	35

*Massachusetts School for the Feeble-minded.*

There has been an unprecedented amount of serious illness during the year. Seventeen patients and 5 employees had diphtheria, and all recovered. Twenty-seven carriers of the diphtheria bacilli were in quarantine for long periods, — one patient was in quarantine for six months before a negative culture could be obtained. There were 69 cases of measles, with 3 deaths resulting; 42 cases of mumps; and 5 cases of scarlet fever, with 1 death.

On September 17 the first case of influenza appeared at the school. The disease rapidly spread over the entire institution. In all, 778 patients and 55 employees were attacked, and 85 patients and 2 nurses died. This means that more than one-half of the school population at Waverley were seriously ill, practically at the same time. In the west building, with 204 feeble idiotic patients, 189 were ill at one time, with only 5 employees to care for them, prepare food, and do the necessary housework. We had 65 cases of pneumonia, with 49 deaths.

The disease was most severe and fatal among the adolescents and adults of low mentality and feeble body. Many of these died within a day or two after being attacked. The epidemic subsided as suddenly as it began, leaving many of the survivors in greatly weakened condition.

The colony at Templeton was absolutely quarantined, and no cases appeared there.

*Wrentham State School.*

In common with the community the institution was visited this fall by a severe epidemic of influenza. The institution was quarantined, all normal school activities were suspended, and the whole institution was converted into a large hospital for the sick. There were in all 740 cases, with a death list of 25 inmates and 2 employees. With few exceptions the physically vigorous adult males were attacked most severely. The low-grade, small children with very little vitality, escaped with light attacks and a low mortality, whereas the mortality was the highest in the more active, vigorous male population.

VI. MASSACHUSETTS COMMISSION ON MENTAL DISEASES CONTRIBUTIONS, 1918.  
Whole No.

207. 1917.27. "The Founding of the Monson State Hospital." H. R. Stedman.
208. 1917.28. "Notes on Researches in Epilepsy at Monson State Hospital, Massachusetts." E. E. Southard.
209. 1917.29. "The Medical Value of Optimism." Charles W. Page.
210. 1917.30. "Epilepsy shown by Moving Pictures." Walter S. Chase.
211. 1917.31. "Eye Work at the Monson State Hospital." George A. Moore.
212. 1917.32. "An Etiological Study of a Series of Epileptics." L. B. Alford and S. I. Schwab.
213. 1917.33. "Focal and General Unilateral Brain Atrophy: Effects upon the Corpus Callosum." Annie E. Taft. Review of Neurology and Psychiatry, June, 1916.
214. 1917.34. "Body Types in Epileptics." M. B. Hodskins. Boston Medical and Surgical Journal, Vol. CLXXVII, No. 3, July 19, 1917.
215. 1917.35. "Epileptic Dementia." D. A. Thom and E. S. Bundy.
216. 1917.36. "A Second Note on the Frequency of Epilepsy in the Offspring of Epileptics." Douglas A. Thom.
217. 1917.37. "Alcohol as a Factor in the Production of Epilepsy and Allied Convulsive Disorders." Douglas A. Thom.
218. 1917.38. "Dilatation of the Lateral Ventricle as a Common Brain Lesion in Epilepsy." Douglas A. Thom.
219. 1917.39. "Impacted Wisdom Teeth as a Cause of Epilepsy." J. F. Roche.
220. 1917.40. "A Study of the Nationality, Education, Occupation, Religion and Civil Condition of 1,000 Epileptic Patients at Monson State Hospital." Helen T. Cleaves.
221. 1917.41. "The Incidence of Intestinal Adhesions as a Factor in Chronic Intestinal Stasis in the Epilepsies." H. Caro. Boston Medical and Surgical Journal, Vol. CLXXVI, No. 20, pp. 697-699, May 17, 1917.
222. 1917.42. "Intestinal Adhesions and Peritoneal Bands in Epileptics." H. Caro. Boston Medical and Surgical Journal, Vol. CLXXVII, No. 7, pp. 208-210, Aug. 16, 1917.
223. 1917.43. "A Collection of Epileptic Literature for the Monson State Hospital." Everett Flood.
224. 1917.44. "Selected Statistics concerning Epileptics used at the Monson State Hospital in Illustration of its Work." Everett Flood.
225. 1917.45. "Introduction to William Leonard Worcester Series of Danvers State Hospital Papers, 1915." Lawson G. Lowrey.
226. 1917.46. "Introspects and Prospects." James J. Putnam.

Whole  
No.

227. 1917.47. "The Place of the State Hospital and its Laboratory in the Development of Psychiatry." Sanger Brown.
228. 1917.48. "Educational Value of State Hospital Laboratories." Charles W. Page.
229. 1917.49. "Applied Psychiatry in State Care of the Insane." Arthur H. Harrington.
230. 1917.50. "Routine Methods of the Danvers State Hospital Laboratory." Lawson G. Lowrey.
231. 1917.51. "A Toxic Psychosis associated with Tetany." A. M. Barrett. *Journal of Nervous and Mental Diseases*.
232. 1917.52. "Advantages of a Pathological Classification of Nerve Cells." E. E. Southard. *Transactions of the Association of American Physicians*, 1915.
233. 1917.53. "Diagnosis per Exclusionem in Ordine." E. E. Southard. *Transactions of the Association of American Physicians*, 1918.
234. 1917.54. "Observations on Cranial Asymmetry." Herman M. Adler. *American Journal of Insanity*, Vol. LXXIV, 1917.
235. 1917.55. "Questions about the Duration and Classification of a Brain Tumor." E. D. Bond. *Journal of Nervous and Mental Diseases*, Vol. XLVII, 1917.
236. 1917.56. "Microlenia and Other Observations on the Spleen in Psychopathic Subjects." M. M. Canavan and E. E. Southard.
237. 1917.57. "On the Characteristics of the Spinal Fluid found in Nine Cases of Cord Compression." J. B. Ayer.
238. 1917.58. "Some Observations on the Influence of Angle of Section on Measurements of Cortex Depth and on the Cytoarchitectonic Picture." Samuel T. Orton. *Journal of Nervous and Mental Diseases*, Vol. XLVII, 1918.
239. 1917.59. "A Study of the Neuroglia in a Case of Sarcoma of the Brain." Charles Ricksher. *American Journal of Insanity*, Vol. LXXIV, 1918.
240. 1917.60. "An Analysis of Fourteen Cases of Senile Dementia showing neither Atrophic nor Arteriosclerotic Cerebral Changes at Autopsy." L. B. Alford. *Journal of Nervous and Mental Diseases*, Vol. XLVI, 1917.
241. 1917.61. "Prognosis in Pulmonary Tuberculosis." P. Challis Bartlett. *Medical Record*, June 23, 1917.
242. 1917.62. "Concerning the Relative Frequency of Insanity in City and Country." H. M. Swift. *American Journal of Insanity*, Vol. LXX, 1913.
243. 1917.63. "Cardiac Arrhythmias." E. T. F. Richards.
244. 1917.64. "Some Possibilities in the Treatment of the Tuberculous Insane." Newell B. Burns.
245. 1917.65. "A Case of Bothrioccephalus Infection." C. G. McGaffin. *Medical Record*, August, 1917.

Whole  
No.

246. 1917.66. "Prognosis in Manic-Depressive Insanity." J. B. Macdonald. *Journal of Nervous and Mental Diseases*, Vol. XLVII, 1918.
247. 1917.67. "The Central Canal of the Spinal Cord." S. P. Kramer. *American Journal of Insanity*, Vol. LXXV, 1918.
248. 1917.68. "The Conduct of the Insane." Harold I. Gosline. *Journal of Abnormal Psychology*, November, 1917.
249. 1917.69. "The Broadening Field of Mental Medicine." Wm. B. Cornell. *Medical Record*, 1918.
250. 1917.70. "M. Charcot." Floyd F. Hatch.
251. 1917.71. "Some Unusual Conditions observed in 245 Post-mortem Examinations at Danvers State Hospital." Lawson G. Lowrey. *Boston Medical and Surgical Journal*, Vol. CLXXVI, 1917.
252. 1917.72. "A Case of Pernicious Anemia in a Syphilitic treated with Salvarsan." Lawson G. Lowrey. *Boston Medical and Surgical Journal*, Vol. CLXXVII, 1917.
253. 1917.73. "Mastiche and Potassium Permanganate Tests applied to the Cerebrospinal Fluid of the Insane." Lawson G. Lowrey, *Boston Medical and Surgical Journal*, Vol. CLXXVII, 1917.
254. 1917.74. "Cerebrospinal Fluid Tests, especially the Gold Reaction in Psychiatric Diagnosis." Lawson G. Lowrey. *Journal of Nervous and Mental Diseases*, Vol. XLVI, 1917.
255. 1917.75. "Report of a Brain Tumor in a Case clinically considered to be Paresis." Lawson G. Lowrey. *Journal of Nervous and Mental Diseases*, Vol. XLVII, 1917.
256. 1917.76. "On the Method of Recording Brain Weights, the Error Due to Inclusion of Cerebral Fluid." Lawson G. Lowrey. *Journal of Nervous and Mental Diseases*, Vol. XLVIII, 1918.
257. 1917.77. "On the Indexing of Case Records." Lawson G. Lowrey.

NOTE.—Contributions Nos. 207 (1917.27) to 224 (1917.44) were published as the "Monson Anniversary Number" of the Bulletin of the Commission on Mental Diseases, Vol. II, No. 2, July, 1918, and Nos. 225 (1917.45) to 257 (1917.77) constituted a double number of the Bulletin, Vol. II, No. 3, "Danvers Anniversary Number," October, 1918.

## VII. SUMMARY.

I. Despite the war conditions the pathological service of the Commission has maintained its progress.

II. The progress of the pathological service may be marked out in the following steps:—

(a) Appointment of a pathologist in 1909, with general duties and the duties of planning the scientific side of the Psychopathic Hospital building.

(b) Appointment of the pathologist as director of the Psychopathic Hospital functioning as a sort of research institute under the Commission, with advanced and extension training courses for State hospital physicians (1912).

(c) Appointment of an assistant pathologist in 1914, with duties of investigations of certain cases of sudden death and accident, and the performance of autopsies in institutions either permanently or temporarily without pathologists; consolidation of work by the appointment of a clerk and a technician.

(d) Appointment in 1915 of a special investigator of the systematic treatment of neurosyphilis.

(e) The extension of the work of the pathological service to the western district of the State (with appointment of another assistant pathologist), and the opening of special wards at the Grafton State Hospital for neurosyphilis treatment in 1916.

(f) Legislative authorization in 1917 for State-wide extension of Psychopathic Hospital facilities.

(g) Consolidation of the neurosyphilis service by the appointment of an assistant pathologist functioning as pathologist to the main department of the Boston State Hospital.

(h) The publication of a new Quarterly Bulletin of the Commission, containing selected medical and scientific studies by the officers of the Commission and of the institutions under its control.

III. The routine of the pathological service of the Commission included 285 autopsies, 117 of which were in cases of sudden death.

IV. One hundred and seventeen sudden deaths were reported to the Commission, of which 50 resulted in autopsy (35 by the pathological service and 15 by medical examiners or otherwise).

V. There is still a tendency to a relative decrease in severe accidents (221 in 1917, as against 225 in 1916).

VI. Visitation of the institutions in the interest of investigation, diagnosis and treatment has been made to the extent of 297.

VII. Progress in institutions taken separately is described briefly in Section V of this report.

Respectfully submitted,

E. E. SOUTHARD, M.D.,

*Pathologist.*

## REPORT OF COMMITTEE ON TRAINING SCHOOLS.

GEORGE M. KLINE, M.D., *Director, Massachusetts Commission on Mental Diseases.*

DEAR DOCTOR:—The Committee on Training Schools respectfully submits the following report:—

Meetings have been held regularly throughout the year. Many difficulties, due to war conditions, have been encountered in carrying through the standardized curriculum, but the main features have, however, been adhered to.

In June uniform examinations were given to the two classes of the various hospitals at the same time. There were 114 pupils who took the junior examination, 76 of whom passed; 81 pupils took the senior examination and 75 passed successfully. A method used the past year and described in the report of 1917 was used in the preparation of questions and the examination of papers.

Analytic charts showing the percentages made by the various schools in each subject were sent out to the hospitals for study.

The course for male attendants was dropped until the return of normal times. On account of the shortage of instructors many difficulties were encountered in the carrying out of the program of lectures and recitations.

Added difficulties were caused by the influenza epidemic the past few months.

On November 4 the Commission voted to increase the membership to include Dr. Harlan L. Paine, and he has since acted as secretary of the committee.

Our work has been aided and made more enjoyable by the enthusiastic support of the superintendents and superintendents of nurses, together with your co-operation.

Respectfully submitted,

ELISHA H. COHOON,  
JOHN A. HOUSTON,  
JAMES V. MAY,  
HARLAN L. PAINE,

*Committee.*

## REPORT OF DIRECTOR OF SOCIAL SERVICE.

Social service in State hospitals, although of comparatively recent origin, has proven its value to the extent that a recent development of the State policy relative to the care of the insane has been noted in the establishment of a definite place for social service on the State program. The growth of such work in our hospitals has been comparatively slow; this may be due to several reasons: all educational movements are slow, an abrupt process is usually futile; social work, like all other vital parts of an organization, must grow naturally from the ground up; then, too, the lack of properly qualified workers has doubtless played a large part in the retarded development of social service. It is only within a very short time that attempts have been made to definitely interpret psychiatric social work; consequently, the nature of the work and the duties of psychiatric social workers have been more or less vague. When one considers the length of time which has been required to raise the standards of State care of the insane to their present level, it is not at all strange that a new phase of State care should develop slowly.

Although it is somewhat difficult to determine just when and where social service, as such, was first recognized in Massachusetts State hospitals, it is interesting to note that two institutions, — the Massachusetts School for the Feeble-minded and the Northampton State Hospital — have, for some ten or more years, been actively interested in the after care of patients. As this work progressed the social character of problems created by mental disease became increasingly significant, and emphasized the importance of social work in the State hospital. In a very natural manner, therefore, attempts were made to deal with social problems on a smaller scale. Although the service rendered at that time may not have been technically known as *social service*, its spirit and purpose were essentially social, and an excellent foundation was thus naturally laid for what is now definitely known as social work.

With the growth of this work, which at first was more or less experimental, new problems arose which gradually indicated the need of central direction by means of which co-ordination and standardization could be made possible. This need terminated in the establishment of a department to develop social work in the State hospitals connected with the Commission on Mental Dis-

eases. A survey of the hospitals was started early in September, 1918, at present incomplete, but eight institutions having been visited.

It is interesting to note that social service — or, strictly speaking, after-care work — appears to have developed spontaneously throughout the State, several hospitals having evolved methods of their own whereby attempts were made to meet special needs. At present writing six hospitals are engaged in some form of after-care and social work. The outstanding features of the survey are interesting and significant, chief of which are, the recognition of social service as a definite part of State hospital organization; a general expression of interest in the development and co-ordination of social work in institutions; and the demand for specially qualified persons to engage in such work.

Psychiatric social work has not as yet been clearly interpreted in terms that are applicable to State hospital requirements, hence we find in various State institutions many different conceptions of social service, — lack of standards and methods of work which are more or less at variance. In most hospitals social case work appears not to be on a firm or scientific basis; the duties of the social worker are not clearly defined; record and statistical work are, generally speaking, lacking in significance; the status of the worker is not uniformly established in the hospital.

In all forms of pioneer work the spirit and zeal of the workers have played a large part in the ultimate success of an undertaking. This spirit is not lacking in physicians and workers who have been and are still active and interested in the progress of psychiatric social work. In fact, the enthusiastic belief in the possibilities of social work as a valuable asset to the State hospital régime has probably led to the attainment of its present status in Massachusetts. So well established are the early beginnings of the work that organization is obviously necessary, and plans for development are in process of formation.

A tentative plan for State hospital social service has been outlined and presented to several superintendents and social workers for consideration. The general outline of the plan includes extramural and intramural social service. For the present, at least, greater emphasis is to be laid upon extramural service for very obvious reasons, — hospital requirements demand it. The main duties of the social worker are to contribute to psychiatric knowledge and to aid in social adjustments. The outside information which is required for diagnostic purposes and to aid in determining the disposition of the case demands that a great

deal of the social worker's time be spent in the community. The fact that the study of environmental conditions is considered necessary brings the worker into direct contact with community resources which she is to co-ordinate for hospital use. The outline is also suggestive of the various kinds of work which the social worker is best qualified to render, and is related directly to the obvious needs of the hospital, physicians and patients. Some of the details of the plan are as follows:—

Systematic home visiting and after care of paroled or visiting patients; investigation of various kinds; history work; social case work, — placing and care of boarding patients, out-patient clinic work, etc. In order to facilitate standardization of the work and to build up a technique in the hospitals, conferences of all the workers are held regularly at the State House. At these gatherings records and statistical work, social case work, etc., are to be discussed. Executives from private agencies engaged in work which has a direct relation to State hospital work will occasionally describe their work. Superintendents of State institutions will doubtless render valuable assistance by lectures or discussions.

The apparent breach which appears to exist between agencies engaged in different kinds of social work is obviously a handicap to good social welfare work. Especially is this true in work with mental patients who are frequently known to several agencies. A plan is in process of formation whereby outside agencies and State hospital workers will meet to discuss cases which they have in common, and work co-operatively in the disposition of such cases.

The installation of the department of social work, Commission on Mental Diseases, is of very recent date (June, 1918), although the actual work was not commenced until August, 1918. At present one can but attempt to study the situation and watch developments before a detailed plan of future work can be definitely outlined. In a general way it might be stated that work for special groups, such as mentally handicapped soldiers who are discharged from military service, will receive such assistance as the State and other agencies can render. The problem of the feeble-minded in Massachusetts is receiving considerable attention, and any movement which includes social welfare problems will be duly considered. The out-patient clinic work connected with State hospitals is potentially valuable. The community is entitled to such guidance and information as the hospital is able to render. With the establishment of a social service

department in these clinics, valuable educational and after-care work could doubtless be accomplished. It is hoped that plans for this work will develop at an early date.

A distinct need is felt at the present time for properly equipped workers for social service. Persons who possess special qualifications — natural and acquired — are in demand. A general feeling prevails among hospital superintendents that such workers should receive training in the institution, thereby learning at first hand something of the needs of mental patients, of hospital organization, and of the State policy relative to the care of mentally disordered persons. A tentative plan for training workers is under way which takes the above-mentioned factors into consideration. It is quite probable that students or volunteers may take a six months' course in the hospital, to be supplemented later by social instruction and training at a school established for that purpose.

The future of social work in State hospitals appears to be promising. The increasing interest in psychiatric social work, the excellent spirit of co-operation which is being shown by superintendents, social workers and others, lead one to believe that good results may ultimately be realized. The future success of the work depends very largely upon the social workers whose enthusiastic interest, loyalty and work have placed social service on its present level. It is the firm belief of the writer that these workers will not fail to assist the State in developing its most recent number on its program to a high standard of excellency.

Too much credit cannot be given to these superintendents of Massachusetts hospitals whose patient efforts to develop social work and to establish it on a firm basis are in no degree secondary to their present co-operative attitude, which must eventually result in placing our State institutions at the front, among highly organized and efficient hospitals dealing with mental diseases.

In addition to the above statement of social service and the general impressions obtained from an incomplete survey is a brief summary, as follows: —

Number of visits to hospitals, . . . . .	11
Number of conferences with executives of private agencies, . . . . .	9
Number of investigations for hospitals, . . . . .	3
Number of visits to outside agencies, . . . . .	10

- One worker recommended for State hospital and accepted.  
Various communications from and to agencies engaged in social work relative to systems, etc.  
Outline for social work prepared and presented to superintendents of hospitals.  
Outline for monthly reports presented to hospital social workers (duplicate copies to be kept at office).  
One conference of State hospital social workers held at State House.  
Two meetings attended at school for social work.

Considerable time has been devoted to reading, outlining work and interviewing social workers connected with State hospitals, with a view to mutual benefit.

Respectfully submitted,

HANNAH CURTIS,  
*Director of Social Work.*

#### COMMITMENTS FOR OBSERVATION AND TEMPORARY CARE FOR THE WHOLE STATE.

The number of commitments for observation (under section 43, chapter 504, Acts of 1909) was 100 for the year. The period designated by the judges in the various cases was usually thirty days.

Of these cases, 41 were subsequently committed, 2 were re-committed for observation, 37 were discharged, 2 were committed to other institutions, 1 was admitted voluntarily, 6 died, 1 escaped, and 10 were remaining at the close of the year.

Under chapter 307 of the Acts of 1910, requiring that emergency cases which come into the care or protection of the police in Boston be taken to the Boston State Hospital for temporary care, and forbidding the use of prisons, jails or penal institutions for such persons, 223 were taken to the Psychopathic Department of the Boston State Hospital. Of these, 55 were subsequently regularly committed to the Boston State Hospital, 54 were committed to other institutions, 106 were discharged, 1 was admitted voluntarily, 1 was admitted voluntarily to another institution, 2 died, and 4 cases were remaining at the close of the year.

There were 9 admissions under section 34, chapter 504 of the Acts of 1909, which provides for the apprehension of a patient before examination and commitment; 3 of these were subsequently committed and 2 discharged, 3 were committed to another institution, and 1 remained at close of the year.

	ADMISSIONS UNDER —						
	Section 34, Chapter 504, Acts of 1909 (Apprehension of Alleged Insane Person).	Section 43, Chapter 504, Acts of 1909 (for Observation).	Chapter 307, Acts of 1910 (for Temporary Care, Boston Hospital).	Chapter 174, General Acts of 1915 (for Temporary Care).	Section 45, Chapter 504, Acts of 1909 (for Voluntary Care).	Section 42, Chapter 504, Acts of 1909 (for Care in Emergency).	Chapter 142, General Acts of 1918 (for Temporary Care for Persons in Military or Naval Service of United States).
Admitted during year, . . . . .	9	100	223	1,972	865	30	56
Discharged, . . . . .	2	37	106	664	549	2	42
Discharged to Immigration Commission.	—	—	—	—	—	—	—
On visit, . . . . .	—	—	—	—	47	—	—
On escape, . . . . .	—	1	—	1	1	—	—
Died, . . . . .	—	6	2	34	8	—	—
Regularly committed, . . . . .	3	41	55	755	58	16	6
Committed for observation, . . . . .	—	2	—	17	2	—	—
Readmitted under chapter 174, . . . . .	—	—	—	6	3	1	—
Admitted as emergency, . . . . .	—	—	—	21	—	—	—
Admitted voluntarily, . . . . .	—	1	1	136	—	1	1
Returned to institutions, . . . . .	—	—	—	1	—	—	—
Transferred to other institutions, . . . . .	—	—	—	1	—	—	—
Committed to other institutions, . . . . .	3	2	54	281	56	8	4
Voluntary to other institutions, . . . . .	—	—	1	8	12	—	—
Non-mental at private institutions, . . . . .	—	—	—	2	—	—	—
Remaining Sept. 30, 1918, . . . . .	1	10	4	45	129	2	3

Under chapter 174 of the General Acts of 1915, allowing the admission of patients for ten days for temporary care, 1,972 cases were admitted, of whom 755 were subsequently committed, 281 were committed to other institutions, 17 were committed for observation, 664 were discharged, 136 were received under the voluntary status, 8 were admitted voluntarily to other institutions, 1 was returned to institution, 21 were readmitted as emergency cases, 6 were readmitted under chapter 174, 34 died, 1 was transferred to another institution, 1 was on escape, 2 were received as non-mental cases at private hospitals, and 45 were remaining at the close of the year.

There were 30 emergency admissions under section 42, chapter 504, Acts of 1909, of whom 16 were regularly committed, 1 was admitted voluntarily, 8 were committed to other institutions, 2 were discharged, 1 was admitted under chapter 174 to other institutions, and there were 2 remaining on September 30.

Voluntary admissions numbered 865, of whom 58 were regularly committed, 56 were committed to other institutions, 549 were discharged, 47 allowed to go on visit, 1 escaped, 8 died, 2 were committed for observation, 3 were admitted under chapter 174, 12 went voluntarily to other institutions, and 129 were remaining at the close of the year.

It is to be noted with interest that during the year covered by the report there were 865 voluntary admissions, 1,972 under chapter 174, General Acts of 1915, and 223 under chapter 307, Acts of 1910, making a total of 3,060 patients who were admitted without any action of the court or judge or other very formal proceeding. Of these 3,060 cases thus admitted, 1,319 were discharged without commitment, 44 died before commitment, 146 signed voluntary requests, and 129 voluntary patients continued their stay in the voluntary status, no commitment being considered necessary, making a total of 1,638 persons who secured the benefits of treatment in our public or private hospitals for the insane without the formality of a procedure before a judge, which would have been attended with delays, legal exactions, semi-publicity and the stigma of having been pronounced insane, all of which was thus obviated to the comfort and satisfaction of the patients and friends.

#### THE STABILITY OF SERVICE

in the institutions averages about the same as the previous year. There were 3.11 rotations of all employees, compared with 2.80 rotations the previous year; 3.70 in the nursing staff, compared with 3.18 the previous year. The maximum stability for the whole service was at the Taunton Hospital, where there were 2.22 rotations; and for the nursing staff, at the Wrentham School, where there were 3.01 rotations.

The average length of the interval between rotations of all employees was 3.91 months; of all nurses, 3.28 months; men nurses, 2.24 months; women, 4.40 months.

The average shortage of employees was 21 per cent.

*Rotation in Service of Persons employed in Institutions during the Fiscal Year ending Nov. 30, 1918.*

INSTITUTIONS.	WARD. SERVICE.			WHOLE SERVICE.		
	MEN.		WOMEN.		TOTALS.	
	Average Number of Nurses.	Number Different Persons.	Average Number of Nurses.	Number Different Persons.	Average Number of Nurses.	Number Different Persons.
The insane:—						
Worcester Hospital,	59	307	76	214	135	521
Taunton Hospital,	44	174	54	151	98	325
Northampton Hospital,	33	136	412	38	211	216
Danvers Hospital,	51	173	3.39	99	224	2.26
Westborough Hospital,	57	287	5.04	87	215	2.47
Boston Hospital (including Psychopathic Department),	70	388	5.54	151	386	2.56
Grafton Hospital,	60	457	7.62	84	286	3.40
Medfield Hospital,	71	535	7.54	105	398	3.79
Foxborough Hospital,	19	103	5.42	22	92	4.18
Gardner Colony, . . . . .	38	139	3.66	29	70	2.41
Totals, . . . . .	502	2,699	5.38	745	2,116	2.84
Miscellaneous:—						
Monson Hospital, Massachusetts School for Feeble-minded at Waltham, Wrentham School,	41	231	5.63	45	128	2.84
Totals, . . . . .	68	382	5.62	289	738	2.55
Aggregates, . . . . .	570	3,081	5.41	1,034	2,854	2.76

### THE CAPACITY FOR PATIENTS

in all the institutions Dec. 1, 1918, was 17,162, compared with 17,116 the previous year, an increase of 46 beds. The whole number of patients on Dec. 1, 1918, was 17,839, compared with 18,140 the previous year, a decrease of 377. There is, however, a deficiency of provision for 677 patients, or 3.94 per cent.

### THE CAPACITY FOR THE INSANE

in State institutions Dec. 1, 1918, was 13,477, an increase of 46 beds. The whole number of patients on Dec. 1, 1918, was 14,273, as compared with 14,311 the previous year, a decrease of 38. There is, however, a deficiency of provision for 796 patients, or 5.91 per cent.

New construction has been authorized by the Legislature of 1918 providing accommodations for 629 patients.

*Working Capacities of Institutions.*

INSTITUTIONS,	MALES.		FEMALES.		TOTALS.
	Dec. 1, 1918.	Increase for the Year.	Dec. 1, 1918.	Increase for the Year.	
<b>The Insane:</b>					
Worcester Hospital,	808	-	646	-	1,454
Taunton Hospital,	611	-	598	-	1,209
Northampton Hospital,	426	-	392	-	818
Danvers Hospital,	575	9	782	1	1,357
Westborough Hospital,	518	-	643	-	1,161
Boston Hospital,	657	-	22	-	1,576
Grafton Hospital,	876	-	873	-	1,749
Medfield Hospital,	637	-	903	-	1,540
Gardner Colony,	497	-	251	-	748
Foxborough Hospital,	137	-	237	-	374
Mental Wards, State Infirmary,	177	-	496	-	673
Bridgewater Hospital	818	-	-	-	818
Totals,	6,737	25	6,740	21	13,477
<b>Miscellaneous:</b>					
Monson Hospital (sane and insane),	547	-	420	-	967
School for the Feeble-minded at Waltham,	956	-	542	-	1,498
Wrentham School,	538	-	682	-	1,220
Totals,	2,041	-	1,644	-	3,685
Aggregates,	8,778	25	8,384	21	17,162

<sup>1</sup> Decrease.

*Working Capacities of Institutions—Concluded.*

INSTITUTIONS.	NUMBER OF PATIENTS IN INSTITUTIONS DEC. 1, 1918.			INCREASE FOR THE YEAR.	EXCESS OF PATIENTS.		TOTALS. NUMBER OF FEMALES. PERCENTAGE.		
	Males.	Females.	Totals.		Number of Males.	Number of Females.			
					Number of Patients.	Number of Patients.			
The insane:—									
Worcester Hospital,	819	715	1,534	22	11	69	80		
Taunton Hospital,	656	651	1,307	6 <sup>1</sup>	45	53	98		
Northampton Hospital,	514	499	1,013	63	88	107	195		
Danvers Hospital,	629	873	1,502	11 <sup>1</sup>	54	91	145		
Westborough Hospital,	499	740	1,239	45	19 <sup>1</sup>	97	78		
Boston Hospital,	702	938	1,640	94	45	19	64		
Grafton Hospital,	879	916	1,795	128 <sup>1</sup>	3	43	46		
Medfield Hospital,	595	939	1,534	104 <sup>1</sup>	42 <sup>1</sup>	36	6 <sup>1</sup>		
Gardner Colony,	472	300	772	18 <sup>1</sup>	25 <sup>1</sup>	49	24		
Foxborough Hospital,	191	23 <sup>1</sup>	425	42	54	3 <sup>1</sup>	51		
Mental Wards, State Infirmary,	197	508	705	4 <sup>1</sup>	20	12	32		
Bridgewater Hospital, .	807	—	807	43 <sup>1</sup>	11 <sup>1</sup>	—	11 <sup>1</sup>		
Totals, .	6,960	7,313	14,273	38 <sup>1</sup>	223	573	796		
Miscellaneous:—									
Monson Hospital (sane and insane), .	419	456	875	168 <sup>1</sup>	128 <sup>1</sup>	36	92 <sup>1</sup>		
School for the Feeble-minded at Waltham, .	880	611	1,491	133 <sup>1</sup>	76 <sup>1</sup>	69	7 <sup>1</sup>		
Wrentham School, .	495	705	1,200	38 <sup>1</sup>	43 <sup>1</sup>	23	20 <sup>1</sup>		
Totals, .	1,794	1,772	3,566	339 <sup>1</sup>	247 <sup>1</sup>	128	119 <sup>1</sup>		
Aggregates, .	8,754	9,085	17,839	377 <sup>1</sup>	24 <sup>1</sup>	701	677		

<sup>1</sup> Decrease.

## THE PUBLIC INSTITUTIONS.

## WORCESTER STATE HOSPITAL.

Opened in January, 1833. Present capacity, 1,454.

Valuation of the plant, per capita of capacity, \$1,469; real estate, \$1,297; personal, \$172.

Daily average number of patients on books, 1,835; in hospital, 1,531; in family care, 45; on visit or escape, 259.

Number on books Oct. 1, 1918, 1,894; in hospital, 1,549; in family care, 43; on visit or escape, 302.

All admissions, 627.

Admissions as insane, inclusive of temporary-care cases, 627.

First cases of insanity, 386.

Voluntary admissions, 9.

Admissions as inebriate, none.

*Finances.*

Expenditures from maintenance funds, \$487,520; total receipts, \$71,656; being \$42,007 from private patients, \$23,402 from reimbursing patients, \$6,247 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.88; the same less repairs and improvements, \$5.68.

Weekly per capita cost of whole service, \$1.79; ward service, \$0.67.

One person employed for every 5.48 patients; 1 nurse for every 11.39 patients.

Average monthly wage for all persons employed, \$43.73; for nurses, \$34.24; men, \$36.08; women, \$32.81.

*Extract from Trustees' Annual Report.*

The year has been one of few accomplishments in the way of major improvements and repairs; of a keen realization of the needs as outlined in the reports of previous years; and a year of many changes. The Legislature of 1918 granted but one appropriation. This allowed for the renewal of plumbing in a small section of the main building.

The building erected at Hillside Farm by the former State Board of Insanity is as yet unoccupied, owing to conditions beyond the control of the trustees and the administrative head of the institution. It is our belief that these conditions should be removed and the building made suitable for occupancy at an early date.

The medical staff has been depleted to an even greater degree than last year, owing to the demands of the military service and the larger salaries and privileges offered by other States and institutions.

The shortage in nurses, attendants and other employees has neared the acute stage at times. The high wages paid in governmental and industrial pursuits have been a deterrent factor in securing such assistance.

*Extract from Superintendent's Annual Report.*

One of the first essentials in the treatment of persons mentally ill is to maintain a high standard of efficiency in the nursing force. The past year has been an unusually active and successful one for our school. Although short much of the time, the general personnel of the ward service has responded to the performance of extra duties during this emergency in a manner worthy of true patriotic Americans. The superintendent of the training school, Miss Emma J. Wright, resigned her position to go home and care for an invalid mother. This vacancy was filled temporarily by the promotion of Miss Laura Crouse, who resigned after the school year to enter private work. We were exceptionally fortunate in being able to secure the services of Mrs. Elsie I. Richards, who was formerly at the head of the school.

Miss Marian K. Libby, director of industrial therapeutics, resigned during the month of May, later entered the army service, and is now in France. The work has been carried on under the direction of Mrs. Elizabeth L. March, in the female department, and Mr. Fred Corkum, in the male department. Early employment of acute cases is a valuable feature of treatment; by having their attention taken up with some useful occupation, thereby directing their minds along normal channels, mental improvement is hastened and mental deterioration is retarded or prevented in the subacute and chronic patients. An endeavor is made at all times to have the forms of occupation as varied as possible, and so chosen for the patient, individually, that it may not become arduous. Our goal idea is to cause an amelioration of the mental symptoms by means of applying the principles of industrial therapy, bearing in mind at all times that the pecuniary results are of secondary importance.

Due to the shortage of help we have been seriously handicapped in the continuous operation of the ward industries. It is by means of such diversional occupation that certain patients, who because of their peculiar ideas would not co-operate if they were asked to join a class in the industrial room, are reached.

The work of the social service department has been especially active. Many unusual problems have arisen from time to time, as a result of the war, relative to patients leaving the hospital on visit, or the necessity for their return. Patients out on trial visit are, as a rule, glad to have the social worker call, and a word of encouragement or advice often helps them to adjust their difficulties. Occasionally derogatory reports about patients out on visit, when thoroughly investigated, are found to

have emanated from the mind of a meddlesome relative or neighbor. A system has recently been adopted whereby all patients on parole that do not report to the out-patient department shall be visited by the social worker before the expiration of their visit. Positions were found the past year for several patients who had recovered or improved to such an extent that they viewed life from a normal standpoint, but who had no friends or relatives sufficiently interested in their welfare to aid them.

War conditions, the urgent demand for labor, large wages and the draft so depleted our force of employees, and rendered it so difficult to secure the services of competent people, that at one time a serious deficiency seemed to be threatened, especially on the ward services. Because of this shortage of help the standard of care has suffered greatly, having been reduced practically to a custodial one. Under these conditions I consider it almost miraculous that severe accidents and even homicidal acts have been avoided. All employees deserve to be commended for the service they have given. In the performance of arduous duties, at times under trying circumstances, they have been co-operative and shown an interest in the welfare of the unfortunates for the care and treatment of whom they were engaged.

One of the urgent needs of our district is a psychopathic department where all persons apprehended because of irregular conduct due to some mental disturbance could be sent for care and observation until recovery takes place or proper disposition of the case is made. The institution on Summer Street could be converted into a psychopathic hospital at a much less expense than would be incurred by the erection of a new building. It is well located, which is an essential feature, as such an institution should be near the center of population for the convenience of committing magistrates and officers, and to promote frequency of visitation of the friends and relatives of patients. It would be easily accessible for medical men in the community to attend clinics and become better acquainted with the symptoms of incipient mental disease; and in co-operation with the hospital authorities it would be a potent factor in the education of the general public relative to the principles of mental hygiene. Not only would great benefit result from the establishment of such a department where intensive study and scientific investigation could be made of acute cases, but our receiving wards would not be subjected to the confusion and disturbance produced by the delirious and turbulent cases that make up such a large proportion of emergency admissions.

#### TAUNTON STATE HOSPITAL.

Opened in April, 1854. Present capacity, 1,209.

Valuation of the plant, per capita of capacity, \$800; real estate, \$625; personal, \$175.

Daily average number of patients on books, 1,560; in hospital, 1,335; in family care, 43; on visit or escape, 182.

Number on books Oct. 1, 1918, 1,600; in hospital, 1,368; in family care, 37; on visit or escape, 195.

All admissions, 480.

Admissions as insane, inclusive of temporary-care cases, 480.

First cases of insanity, 349.

Voluntary admissions, 10.

Admissions as inebriate, none.

#### *Finances.*

Expenditures from maintenance funds, \$451,869; total receipts, \$43,713; being \$23,186 from private patients, \$17,467 from reimbursing patients, \$3,060 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.27, the same less repairs and improvements, \$6.06.

Weekly per capita cost of whole service, \$1.81; ward service, \$0.58.

One person employed for every 6 patients; 1 nurse for every 13.71 patients.

Average monthly wage for all persons employed, \$48.72; for nurses, \$35.92; men, \$37.86; women, \$34.31.

#### *Extract from Trustees' Annual Report.*

The past twelve months imposed a war-time handicap upon this as well as other institutions. The number of patients remained about the same, except that the number in family care was slightly reduced, while the nurses and attendants totaled barely one-half of the quota, and were fewer by 32 on October 1 of this year than on October 1 of last year. Twenty-two physicians, nurses and employees entered war service during the year.

The resulting shortage made the hospital work largely custodial. Working conditions as well as wage scales should be improved to make it possible to secure the type of worker needed.

The influenza outbreak at the hospital was particularly severe, with 373 cases and a total of 57 deaths. The tireless courage with which a depleted staff faced the difficulties of those weeks deserves to be recorded and remembered. One pupil nurse, Miss Janie Flynn, gave her life while serving as a volunteer nurse in the emergency hospital the city of Taunton opened. The city urgently called for help and two of our nurses responded. Miss Flynn's sacrifice will be commemorated with a suitable tablet in our chapel, and the splendid example of Miss Annie E. Hall, the other volunteer nurse, who was also taken ill but is now recovering, will also be remembered.

During the year progress has been made on the exchange of land whereby the hospital will acquire the Hopewell site and a direct access to Bay Street. The trustees hope that the property may be improved and a suitable bridge built across the river this year. The site will afford an excellent opportunity for planning a cottage colony for employees in coming years.

The policy of publicity continues at this institution. The public is always made welcome and visits of inspection are welcomed. This system, tried out for years, has brought a wider and a better appreciation of the hospital because it has been better understood by the community and people it serves.

*Extract from Superintendent's Annual Report.*

Forty-eight patients had glasses fitted during the year; of these, 14 were examined and fitted by outside oculists.

The summary of the year's dental work is as follows: number of teeth filled, 62; number of teeth extracted, 361; number of teeth treated, 60; number of sets of teeth cleaned, 169; sets of teeth made, 8; whole number of cases treated, 399.

Our War Relief Association continued its work as outlined in last year's report until about July, when the extreme shortage of nurses and attendants obliged us to suspend relief work for the time being. Our employees, however, have not shown any lack of zeal in war work, as their contributions to all war relief appeals and their purchases of Liberty Bonds and War Saving Stamps abundantly show.

On the evening of June 29, 1918, our service flag was dedicated in the presence of an audience from the hospital and the city that filled the hall, Mr. Charles C. Cain, Jr., chairman of your Board, presiding. The honor roll was read by Mrs. Margaret Smith of your Board, after which appropriate patriotic addresses were made by Mr. Charles C. Cain, Jr., and Philip Brady, Esq., of your Board, and Mr. William H. Reed of the "Taunton Gazette."

Our training school for nurses has closed another year successfully, though working under the greatest difficulties owing to the shortage of nurses caused by the war and the necessity of sending so many of our advanced pupils to the Boston City Hospital for their general hospital experience, and, last but not least, the absence for part of the year of our efficient superintendent of nurses, Miss Reba G. Cameron, and our assistant superintendent of nurses, Miss Mary C. Fagan, both of whom have entered the United States service.

The results of the past year's farming have been unusually gratifying, and our barns and storehouses are filled to overflowing. While only one crop—the onion crop—was unusually large and fine, we have never had a year when all our crops were so successful.

## NORTHAMPTON STATE HOSPITAL.

Opened in August, 1858. Present capacity, 818.

Valuation of the plant, per capita of capacity, \$1,486; real estate, \$1,162; personal, \$324.

Daily average number of patients on books, 1,195; in hospital, 979; in family care, 24; on visit or escape, 192.

Number on books Oct. 1, 1918, 1,169; in hospital, 989; in family care, 20; on visit or escape, 160.

All admissions, 407.

Admissions as insane, inclusive of temporary-care cases, 404.

First cases of insanity, 316.

Voluntary admissions, 15.

Admissions as inebriate, none.

*Finances.*

Expenditures from maintenance funds, \$306,491; total receipts, \$60,440; being \$40,448 from private patients, \$17,138 from reimbursing patients, \$2,854 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.81, the same less repairs and improvements, \$5.56.

Weekly per capita cost of whole service, \$2.04; ward service, \$0.72.

One person employed for every 6.42 patients; 1 nurse for every 13.86 patients.

Average monthly wage for all persons employed, \$58.11; for nurses, \$48.24; men, \$51.05; women, \$45.85.

*Extract from Trustees' Annual Report.*

We again express the hope that a hospital may soon be established near the center of our district for the examination, observation and treatment of a considerably large number of mental and nervous cases that thus might be cared for without being committed to a State hospital. One of the first acts of the present Commission on Mental Diseases was to secure the approval of the Legislature for this purpose, though without the quite necessary appropriation to go on with its fulfillment.

The functions and purpose of such a hospital might follow the course of the so-called psychopathic hospitals, a term already falling somewhat into public disfavor, but in our opinion should have a broader scope. It should be more than a clearing house. It would not suffer in repute or in usefulness if with the science in use there should be a judicious admix-

ture of the humanities. Persons under treatment should be patients, not cases. Interest in them should not cease as soon as tests of the blood and spinal fluid have been made and a sort of diagnosis arrived at.

One of the important matters of administration to which our attention has been directed frequently by the superintendent has been the extreme shortage of help throughout the year in every department of the hospital. It has been possible to "carry on," to keep the plant going, to maintain custody of the patients and their routine and necessary medical care, but some of our activities, to make of the institution a hospital in the true sense of the word, have been abridged because of the exigencies of war. What success we have had has been due largely to the loyalty of a small and faithful corps of employees, most of whom, and especially the nursing force, have been employed overtime. With the coming of peace this situation will soon be relieved, but to be completely remedied it should not be lost sight of that the Commonwealth of Massachusetts ought to be able to select its employees from a list of desirable applicants instead of making selection from applicants who, failing to find employment elsewhere, come to us as a last resort. Positions naturally unattractive should be made desirable by means of satisfactory standardizations of hours and wages, and by pleasant and cheerful living accommodations.

*Extract from Superintendent's Annual Report.*

Medical care of the patient has been maintained, though little except routine work has been possible because of the few numbers on our medical staff.

Dr. Harriet Whitney's work has had to be curtailed in the out-patient and social service departments in order to secure her assistance in the ward work on the male service. The superintendent and the two assistant physicians in the male service have given much time to the examination of men drafted for the army, having been appointed to the medical advisory boards in Northampton, Holyoke, Westfield, Greenfield and North Adams. Anti-typhoid vaccinations and routine tests for syphilis have been done as usual. Clinics have been held as heretofore at Springfield, Greenfield and Pittsfield. It has been possible, though under adverse conditions, to continue the lectures to the pupil nurses in our training school. This year a course of lectures on mental disorders was also given to the senior class of nurses at the Cooley Dickinson Hospital. During the months of July and August it was a pleasing duty of our staff to conduct a series of clinical demonstrations to a class of about sixty students who were attending the training school of psychiatric social work at Smith College. The enthusiasm shown and the interest were deeper even than is usually found in a class of medical students who are apt to find ours a rather dry subject, and it was not easy to judge which were the more pleased; the students or our staff, or those of our patients who posed for the demonstration.

Routine dental work was interrupted by the absence of the dentist,

who enlisted in the army, such work as was immediately needed being referred to dentists in Northampton. During the period he was on duty he treated the following cases: 143 silver fillings, 62 cement fillings, 63 enamel fillings, 631 extractions, 203 cleanings, 10 plates repaired, 9 new sets made, 3 bridges put in, 3 crowns made, and 12 cases of pyorrhœa treated.

Our experience of seven years in the social service and out-patient service has demonstrated the value of this work, and a recognition by the public of its usefulness. To meet the increasing demands an additional social service worker will be required this coming year. Shortage of help on our medical staff has made it necessary to keep our assistant, who has had charge of this work, at the hospital a considerable part of the time to assist in the routine ward work; consequently, fewer visits were made this year than usual. Clinics were held regularly at the Franklin County Hospital, Greenfield, at the Springfield Hospital and at the House of Mercy, Pittsfield, the latter especially being well attended at each session, requiring the services of two of our staff during the appointed hours. The probable reason for this is that some who live within reasonable distance of the hospital at Northampton prefer to come direct to the hospital rather than to wait for clinic day at Greenfield and Springfield, but the hospital is not so accessible to residents of Berkshire County.

War conditions have affected unfavorably the family-care activities. Fewer families wish to take patients because of increased living costs. Unless the price of foodstuffs and of fuel are lower, the rate of board for family-care cases must be increased.

Work in the training school was carried on under extreme difficulties. The average number of nurses throughout the year was barely 50 per cent of our quota; consequently class work, lectures and demonstrations were irregularly attended or frequently postponed in order that necessary ward work might be done.

Changes in the personnel of the nursing staff were frequent, and applications for admission and classes were few because of conditions in the labor market elsewhere. Only 14 pupils entered the junior class, and but 4 of these remained at the end of the year. Three pupil nurses completed the senior class work for 1918, and 3 are now completing their affiliating course at Bellevue Hospital.

At times there were so few nurses and attendants in service that patients were delegated to take charge of certain wards, which they did well, to their own great pleasure and to the general satisfaction of the other patients. In several instances patients were dismissed from our books as patients and were at once placed on the pay roll, the change working out acceptably to every one concerned.

The dry season in midsummer was rather unfavorable for our crops. Corn, hay and potatoes yielded well, but other crops were below the normal average. Garden crops especially suffered from the drought. It is estimated that the total yield of crops was about 85 per cent of the normal average. However, we produced all the milk we use, all the

pork and much of the beef, and it probably will not be necessary to purchase any vegetables for the coming year.

Employment, as often reiterated, is one of the most important of therapeutic measures. Many patients, as usual, and as set forth in previous reports at some length, have been kept busy on the wards, at the shops, on the farm, in the gardens, at the barns, and in the industrial rooms. Women patients have enjoyed working in the gardens picking berries, peas, beans and small fruits, weeding onions and husking corn. Some of them, as in former years, have had garden plots to cultivate, using the products raised for themselves and their associates, to their great pleasure and satisfaction. Under the direction of our employees, patients have done excavating and grading for the new nurses' homes, and have done the cement work in connection with the tunnel leading to the nurses' home for men.

Like all the other activities, the teaching of industries has suffered from the shortage of help. Our three teachers left us to engage in work for the government, and since the middle of November we have had but one teacher to carry on the work, but, as shown by her report, considerable has been done the past year, and the thread of work was not broken.

The male patients have largely directed their activities to the making of baskets, weaving, upholstering and the like. They have made all the mattresses, tinware and brooms used by the hospital, and have repaired shoes and furniture.

#### DANVERS STATE HOSPITAL.

Opened in May, 1878. Present capacity, 1,357.

Valuation of the plant, per capita of capacity, \$1,939; real estate, \$1,730; personal, \$209.

Daily average number of patients on books, 1,830; in hospital, 1,502; in family care, 26; on visit or escape, 302.

Number on books Oct. 1, 1918, 1,829; in hospital, 1,487; in family care, 28; on visit or escape, 314.

All admissions, 717.

Admissions as insane, inclusive of temporary-care cases, 717.

First cases of insanity, 480.

Voluntary admissions, 42.

Admissions as inebriate, none.

#### *Finances.*

Expenditures from maintenance funds, \$554,829; total receipts, \$71,539; being \$43,038 from private patients, \$24,716 from reimbursing patients, \$3,785 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.94; the same less repairs and improvements, \$6.55.

Weekly per capita cost of whole service, \$2.11; ward service, \$0.84.

One person employed for every 5.31 patients; 1 nurse for every 10 patients.

Average monthly wage for all persons employed, \$49.48; for nurses, \$37.23; men, \$40.85; women, \$35.33.

*Extract from Trustees' Annual Report.*

It speaks well for the hospital organization that, with a medical staff reduced from 10 to 4, and part of the time to 3 and even 2 members, with a greatly reduced nursing force, the interests of the patients have not fallen into neglect, and the percentage of discharges, improved and recovered, compares favorably with that of previous years.

The responsibilities and the anxieties of the staff in these trying times have indeed been very great. The year has ended satisfactorily, and it is fitting to express our appreciation of the untiring, ungrudging efforts of nurses, attendants, officers and employees, who have maintained the standards and proven their loyalty to the best interests of the institution.

Out-patient work, community clinics, supervision of discharged patients could not be carried on satisfactorily. Trained, competent workers in these fields of endeavor were not available. Much of the excellent program of supervision and rehabilitative effort of recent years has had to be abandoned. The hospital ideal,—the aim to become an educational center for the district in matters of mental hygiene,—while not lost sight of, could not be carried into effect.

Under the conditions prevailing during most of the year past, hospital care bade fair to degenerate into mere custodial care.

It seems timely to lay emphasis upon this aspect of hospital affairs during the year. To those not familiar with the problems of mental disease it may appear that the same rules and the same measures should apply in the future as when, with its greatly reduced working force, the hospital was obliged to "carry on" its usual work. It would be a calamity indeed were the attitude of the public towards hospitals and their service affected in this wise by the experiences of the war. No department of public service has been more embarrassed in its work during this period than that concerned in the case of the mentally diseased. The distressing situation as regards the shortage of medical and nursing forces in the State hospital would inevitably have resulted in a short while in a very perceptible lowering of the standards of care and accomplishment. An unpreventable decline along the lines of research and reconstructive and rehabilitative effort had already set in, obvious enough to those familiar with hospital conditions.

The question of getting trained men to fill vacancies in the medical

staff, an efficient corps of nurses and attendants to bring our skeleton force up to the normal number, and the question of supplies, equipment and facilities for housing and caring properly for an increasing population of inmates, will, for some time to come, form our most difficult problems. For the present we can but take up one by one, as best we may, the various lines of effort interrupted by the necessities of war. Further progress must wait upon the restoration of normal conditions.

*Extract from Superintendent's Annual Report.*

Admissions for the first time to this or any hospital numbered 480, as compared with 533 last year,—a decrease of 53. As our inmate population is derived from a fairly definite area, one may conclude, from the figures showing total admissions and admissions for the first time to any hospital, that, on the whole, the strain of war conditions has not resulted in an increase of insanity among the population at home. The incidence of mental breakdown in males, resulting in commitment, is particularly interesting in this connection, in view of the process of "weeding out" neuropathic subjects in the various military camps by specialists, as well as by local and advisory medical boards. Notwithstanding the return to the community of men regarded as unfitted for military service by reason of predisposition to mental disorders, the total male admissions were 43 less than last year.

Throughout the year there has existed a very serious shortage of help in all departments. One hesitates to mention the difficulties and trials experienced, in view of the unselfish devotion and loyalty to the interests of the institution, the fine spirit of co-operation, manifested generally by the small force of officers and employees remaining in the service. The demands upon officers and employees, involving increased effort, added obligations and sacrifice of personal interests on the part of every one have been accepted in all instances in a spirit of cheerful willingness, the memory of which should endure. In particular, the faithful service of the medical staff deserves appreciative recognition.

Undoubtedly it has been humanly impossible to accomplish as much in the way of research as in former years, but the immediate interests of the patients have not fallen into neglect, and the excellent character of the work performed has its witness in the results of treatment, which compare favorably with those of former years. To these deserving officers the institution owes a deep and abiding sense of obligation. Those who left us and were privileged to serve the cause of our country in France or elsewhere have earned their reward,—honor, and favorable recognition, and the Nation's gratitude; but the men in the public service who were compelled by necessities of that service to remain at their posts and carry on the dull routine of duty, in times like these, deserve all the credit that can be given them. It is not too much to say that they are contributing their bit towards the Great Cause to as good purpose as if they had taken part with the actual fighting force of the Nation.

The policy of transferring staff members for a month or two to the Psychopathic Hospital service in order to give them the advantage of the extension training course has had to be abandoned this year on account of the shortage of staff physicians.

*Student Internes.*

For some years undergraduates of medical schools, attracted by the opportunities for clinical study and laboratory research, have been taken into the service, during vacation periods, as student internes. So many applications for these positions were received during the year that not all could be accepted. Those who could not be accommodated here were referred to other of our State hospitals. From such leading medical schools as Johns Hopkins and the Women's Medical College of Pennsylvania we have drawn this year, as heretofore, a fine class of internes intensely interested in psychiatric problems from the clinical and pathological side, eager to gain knowledge and experience in methods of treatment and management of mental diseases. The duties of the interne service having been so arranged that the time was equally divided between clinical and laboratory work under the direction of the regular staff, it provided experience of exceptional value for the students, and proved of very great advantage to the hospital. An excellent thing for the hospital at any time is the admission to the service of a group of eager, inquiring students. This year the interne service was of unusual importance to us in this as in other respects, enabling us to clear up unfinished work, and, in fact, making it possible to allow the members of the staff the regular time for vacations.

*Medical Work.*

The routine mental, neurological and physical examinations of admitted cases have been conducted as heretofore. On account of the shortage of medical assistants it has been found necessary to change the order governing routine clinical notes. Following presentation at staff conferences, clinical notes were made at six months' intervals, instead of three, except in cases presenting unusual symptoms or when the diagnosis remained in doubt. Unusual or remarkable changes in patients' conditions were, as formerly, noted as they occurred.

We are far from being satisfied with this change. Frequent routine examination means a clearer picture of the case, renewed interest in the patient's condition, and recurring stimulation to therapeutic effort. Nothing is more useful, in the interest of patients as well as of scientific progress, than a frequent review of cases. It often lays bare obscure secrets which confound earlier judgments. It may reveal, as nothing else can, how efforts at treatment, based upon incomplete data or imperfect understanding, have ended in failure, opening out the question of more effective measures in the light of our mistakes; and it is a check upon hasty, careless examination and study during the original period of observation, errors consequent upon such causes being sure of exposure

sooner or later. We were forced to put this change into effect by reason of the impossibility of carrying on the routine of former years on account of the shortage of clinicians. It is one of the shifts against a time of need which must be charged up to the exigency of war.

#### WESTBOROUGH STATE HOSPITAL.

Opened in December, 1886. Present capacity, 1,161.

Valuation of the plant, per capita of capacity, \$1,155; real estate, \$764; personal, \$391.

Daily average number of patients on books, 1,625; in hospital, 1,223; in family care, 37; on visit or escape, 365.

Number on books Oct. 1, 1918, 1,592; in hospital, 1,237; in family care, 28; on visit or escape, 327.

All admissions, 524.

Admissions as insane, inclusive of temporary-care cases, 477.

First cases of insanity, 255.

Voluntary admissions, 87.

Admissions as inebriate, 36.

#### *Finances.*

Expenditures from maintenance funds, \$483,733; total receipts, \$94,764; being \$65,558 from private patients, \$25,363 from reimbursing patients, \$3,843 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$7.33; the same less repairs and improvements, \$7.02.

Weekly per capita cost of whole service, \$2.42; ward service, \$0.93.

One person employed for every 4.32 patients; 1 nurse for every 8.50 patients.

Average monthly wage for all persons employed, \$46.64; for nurses, \$35.46; men, \$40.36; women, \$32.25.

#### *Extract from Trustees' Annual Report.*

The great war beyond the seas has wrought hardships right here in Westborough. There have not been men and women enough to carry on the work as in former years. The prices of fuel, food and wages have increased beyond all previous experiences. Discomfort and dissatisfaction have been frequent, and complaint has been excusable. It is a great satisfaction, indeed, to feel that during the year no serious disturbance has occurred.

Of all the trials of this hard year none has been so great as the coal

supply. In the winter there were times when there was sufficient for only a few days. At times, too, the whole carload of coal was one solid, frozen mass, making the unloading very difficult. In the spring the teams were hauling coal many times when they should have been preparing the ground for the crops. In the summer several thousand tons of coal were delivered in order to secure a supply for the coming cold weather, but it was imperative that the cars be unloaded without delay. Only a portion of the cars could be emptied by dumping; many could be emptied only by shoveling; and men were diverted from seasonable farm work to piling up coal for the winter. And, in order to facilitate the process, outside teams were employed at abnormal cost to remove to the boiler house the surplus coal from the railroad siding, and to permit the delivery of the remainder of the winter's needs. This manner of delivery will undoubtedly prove to be wasteful, also, for by dumping from carts over a large area of field land, as was necessary, a considerable quantity of coal can never be recovered and used.

While the recent cessation of warfare brings joy to every heart in this great country, it brings also to the institutions throughout the land the hope that a return to normal conditions may be speedy; that doctors and nurses may assume again their former duties and may bring to their work an increased zeal and a warmer sympathy with the suffering; and that many things discontinued for a time may soon go forward to completion. We venture to believe that in the years immediately before us the newly roused spirit of study and research and of uplift of all, everywhere throughout the world, will solve problems of cause, prevention and cure of mental disorders that will mark this epoch as the greatest of all time, and make unnecessary many institutions now crowded full with those who are mentally unsound.

*Extract from Superintendent's Annual Report.*

Discussion of the shortage of labor has become almost as commonplace as discussion of the weather and about as futile, but I feel that I would not be doing my duty if I did not call to your attention at this time some of the facts of the situation and the deplorable results. On the farm we have seen one to three teams standing idle in the barns for days because we could not get teamsters; the hay ripened and turned yellow standing in fields because there were no harvesters; the weeds, kept down at first, overtopped garden crops because there were not attendants available to take out sufficient patients to do the work; and the midsummer sun shriveled up the ensilage corn planted too late.

In the steward's department changes in the personnel were made so frequently that the employees remained hardly long enough to learn the way from their rooms to the kitchens, while the cooking and serving of food suffered greatly.

In the ward service we found ourselves getting along with 50 per cent of the normal number of nurses and attendants, with results of a great

lowering of discipline and efficiency. This has been most marked on the male service. Here we had at the beginning of the year 96 employees, or 6 more than the required number, but by the end of the year we had 38 on duty, the daily average on duty having been 59.7. Only 13 of the 96 with us on Dec. 1, 1917, were still here on Nov. 30, 1918, and in the interim 275 new employees had come into the service. There were 371 individuals employed in the male ward service during the year, and with a daily average of 63 on the pay roll we found ourselves showing nearly six complete turnovers.

Now as the consequence of this shortage, wards have been closed and the patients crowded together. The most deplorable feature of this has been the abandonment of our psychopathic classification on the male service, the acute cases being grouped with the chronic. On the women's side we have been able to avoid this.

Some months ago on the women's wards we organized among the patients a corps of "nurses' aides," giving the selected patients a white band with a blue stripe to wear on the arm, and granting them some additional outing and privileges. Two patients took advantage of this and escaped, but otherwise the patients were most honorable. These patients rendered much needed aid, and many bed patients and helpless women were made comfortable by the faithful work of these nurses' aides. This plan has worked out most satisfactorily and beneficially, not only to the patients administered to, but to those doing this work. We plan to continue this feature of our work in the future.

Last summer we combated the shortage of nurses somewhat by employing six or seven teachers and recent normal school graduates as industrial occupational teachers, two of them taking the women patients out to work in the gardens picking vegetables, the others working on the wards with groups of patients. This plan was only temporary, for they returned to their schools in the fall; but they tided over the vacation period.

The medical staff has been equally reduced, and for some months three ward physicians have been trying to cover the work formerly done by four, with resulting lessened clinical notes, deferred routine physical examinations, and, what is more to be deprecated, lessened individual attention to patients.

#### BOSTON STATE HOSPITAL.

Opened in December, 1839. Present capacity, 1,576.

Valuation of the plant, per capita of capacity, \$2,098; real estate, \$1,901; personal, \$197.

Daily average number of patients on books, 1,889; in hospital, 1,597; in family care, 8; on visit or escape, 284.

Number on books Oct. 1, 1918, 1,919; in hospital, 1,655; in family care, 8; on visit or escape, 256.

All admissions, 2,184.

Admissions as insane, inclusive of temporary-care cases, 2,184.

First cases of insanity, 1,742.  
Voluntary admissions, 453.  
Admissions as inebriate, none.

#### *Finances.*

Expenditures from maintenance funds, \$768,279; total receipts, \$54,844; being \$22,372 from private patients, \$26,910 from reimbursing patients, \$5,562 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$9.06; the same less repairs and improvements, \$8.73.

Weekly per capita cost of whole service, \$2.96; ward service, \$1.14.

One person employed for every 3.77 patients; 1 nurse for every 7.29 patients.

Average monthly wage for all persons employed, \$48.67; for nurses, \$36.20; men, \$38.27; women, \$35.23.

#### *Extract from Trustees' Annual Report.*

##### *Improvements recommended.*

The Board has recommended to the Commission on Mental Diseases that legislation be asked for, if necessary, to provide for the enclosure of the Canterbury branch of Stony Brook where it crosses the land of the hospital. Serious overflows from the open trench have several times occurred, endangering the steam connections and the operation of the power plant. Frequent cleaning of the trench will be necessary if it remains open, as sediment is being constantly brought down from the upper part of the branch, which is enclosed and used as a surface drain for the streets. Not only is this removal of sediment very expensive, but if the watercourse could be enclosed it would render available a large tract of land suitable for building purposes.

The Board also recommends that the Commonwealth acquire the parcel of land now owned by the Forest Hills Cemetery Association on the southeasterly side of Canterbury Street. This land with its small buildings would be of great service to the hospital, and by acquiring it the hospital property would not abut on any private land but would be bounded by four streets.

##### *Administration.*

Dr. James V. May entered upon his duties as superintendent Dec. 1, 1917, and to his wise and efficient administration the present excellent condition of the institution is due. In the care of the main hospital he has been supported by Dr. E. Corser Noble, who has been made assistant superintendent. The work of the Psychopathic Department has been organized by appointing Dr. Arthur P. Noyes chief executive officer, and Dr. Lawson G. Lowrey chief medical officer, both of whom are re-

sponsible to the superintendent in matters connected with the management of the department. The director of the Psychopathic Department, Dr. E. E. Southard, was granted leave of absence in September, that he might enter upon his duties in the chemical warfare service, in which he received a commission as major. The signing of the armistice will fortunately permit his early return to the service of the Commonwealth.

*Extract from Superintendent's Annual Report.*

*Employees.*

The maintenance of an adequate force of employees in the various departments of the hospital has continued to be a serious problem. There were 433 persons employed at the institution on Nov. 30, 1917. During the year 1,113 employees were appointed, 1,044 resigned, and 110 were discharged. There were 1,546 persons occupying 468 positions, the percentage of changes being 235, a rotation of 2.35. This shortage of employees is to be attributed to various causes. While it is doubtless due in part to wartime conditions, it must be borne in mind that this difficulty existed before the war commenced. It has been due very largely to the fact that higher wages are paid for similar services in the community at large. The prevailing rate of wages must be considered if we are to maintain an adequate force of employees in the hospital. To meet these difficulties the Commission has authorized several increases. These have necessitated additional expenditures, and have resulted in a cost of personal service which would not have been considered justifiable a few years ago. Notwithstanding these increases, it has not been possible for us to maintain a sufficient force of nurses and attendants on the wards to insure the proper care of patients and to maintain the standards which have been considered so important heretofore. The hours of service are long, the nature of the occupation is not attractive to many, and the wages paid are in many instances lower than those offered by others. It has not been possible to maintain ward industries and employ the number of patients who have usually been engaged in occupations. It has compelled us to use more restraint and seclusion for the protection of the patients themselves. It has been impossible at times to take the patients out of doors for exercise when they should have gone. It has seriously interfered with the operation of the hospital on visiting days, when a large number of relatives and friends of patients seek admission. There is no question but what the shortage of nurses and attendants in the wards has been responsible for an increase in the number of accidents, injuries and escapes. Under these difficult circumstances the members of the medical staff have completed a hard year in a way which is worthy of commendation.

*Medical Service.*

The work of the out-patient department of the hospital includes the supervision of patients in family care, those at home on visit, the after care of patients who have been discharged from the custody of the hospital,

and medical advice given to numerous persons who visit the hospital for the purpose of consulting members of the staff on matters pertaining to their own mental welfare or that of their family or relatives. The patients who have been allowed to go home on visit, or who have left the hospital temporarily for family care, are visited at frequent intervals by the social service workers of the hospital. Patients who are at home on visit are also required to present themselves at the hospital at regular intervals for observation. Considerable supervision is also given to former patients who have been discharged, but who are kept under observation by the social workers and the physicians. Many cases appearing for consultation are accepted as voluntary patients. Others are referred to their family physicians or to the Psychopathic Department.

The dental work of the year, as usual, has been under the supervision of the visiting dentist, Dr. Walter J. Whelan. Well-equipped dental rooms have been provided for during the year in Building A in the East Group, and Building B in the West Group. The visiting dentist spends one afternoon a week at each group. A dental hygienist has been appointed for the purpose of assisting the dentist on his regular visiting days, and doing such routine work on other days as the cleaning of teeth, etc. This has made it possible to cover a field heretofore much neglected, and to give dental care to a much larger number of patients.

The work of the training school for nurses and attendants has been carried on as usual during the past year. The curriculum has been adapted to the course of instruction prescribed by the committee on training schools appointed by the Commission on Mental Diseases. Arrangements have been made by which all of the pupil nurses will be given the benefit of a regular rotation of service, and receive practical instruction in the acute service, the reception buildings, the infirmary wards, night duty, the care of acute illnesses, the care of custodial classes in the chronic services, etc. In this way they will be given experience in every phase of the care of the insane in the wards of the hospital, and be well equipped for neurological and psychiatric nursing on graduation. In accordance with the requirements of the Commission on Mental Diseases, an affiliation has been arranged for with the Boston City Hospital which will enable the pupils in our training schools to obtain an extended experience in general hospital work. This will cover general medicine and surgery, the care of contagious diseases, pediatrics, gynecology and obstetrical nursing. Owing to the change from the two to the three year course of instruction now given, no class was graduated during the present year. The junior class for 1918-19 consists of twenty-eight, the intermediate class of seventeen, and the senior class of thirteen. Five nurses are now receiving the instruction of the intermediate year at the Boston City Hospital, and five in Fordham Hospital, New York City. There are at the present time twelve graduates from the training school employed in the wards of the hospital. An important work in connection with the training school is the instruction of attendants who desire to enter the classes, but who are not high school graduates and

are lacking in the preliminary education required. A course of instruction has been carried on under the auspices of the educational department of Boston University. During the past year lectures were given in various branches and seventeen attendants enrolled. A systematic course of instruction was carried on during the year for female attendants who are not eligible for entrance to the training school for nurses.

Staff meetings have been conducted as usual during the past year, alternating between the East and West Groups. Meetings have been held monthly at the pathological laboratory, where autopsy reports were presented by the pathologist, and demonstrations made of gross pathological material of interest. During the winter months as many members of the hospital staff as could be spared have attended staff meetings at the Psychopathic Department, and the chief medical officer of the Psychopathic Department has attended staff meetings at the hospital department.

#### *Occupations and Industries.*

The women's industrial department in the East Group is under the direction of a teacher and one assistant. In this department sewing and mending is done as well as basket making, rug making, weaving, lace making, embroidery, knitting, crocheting, etc.

#### *Psychopathic Department.*

In view of the fact that the work of the medical staff at the Psychopathic Department does not closely follow State hospital lines, it was deemed desirable to change the titles of the medical officers of the department and make them more distinctive of the duties performed. It is a generally recognized fact that the classification of medical positions in the State hospital service cannot properly be applied to the staff of the Psychopathic Department, nor should the salaries paid conform to those determined upon for medical officers in other branches of the service. Appointments in the Psychopathic Department cannot and should not conform to any of the uniform grades in the general State hospital services. For these reasons the staff positions were classified during the year as follows:—

1. Director.
2. Chief executive officer.
  - Executive officer.
  - Assistant executive officer.
3. Chief medical officer.
  - Medical officer.
  - Assistant medical officer.
4. Chief out-patient medical officer.
  - Medical officer, out-patient department.
  - Assistant medical officer, out-patient department.
5. Chief psychologist.
6. Chief of social service.

*Financial Statement.*

For the purpose of bringing about the better supervision of the dietary of the institution, a dietitian was appointed early in the year. Food supplies have been purchased on a definite ration allowance for the first time, and an elaborate system of waste accounting has been instituted. This has resulted in great economy as well as the establishment of a more satisfactory food service. Definite records are now available showing the food supplies issued during the month, with the per capita allowance of every article issued in each of the departments of the institution. The value of the dietary in grams of protein and calories, as well as the amount of waste both usable and unusable from the patients' and the employees' dining rooms, is included in the dietitian's monthly reports. Butter cutters have been installed in all of the dining rooms, and several bread cutters purchased.

**GRAFTON STATE HOSPITAL.**

Opened in October, 1877. Present capacity, 1,749.

Valuation of the plant, per capita of capacity, \$1,271; real estate, \$1,091; personal, \$180.

Daily average number of patients on books, 1,977; in hospital, 1,889; in family care, 19; on visit or escape, 69.

Number on books Oct. 1, 1918, 1,956; in hospital, 1,858; in family care, 21; on visit or escape, 77.

All admissions, 59.

Admissions as insane, inclusive of temporary-care cases, 59.

First cases of insanity, 17.

Voluntary admissions, 3.

Admissions as inebriate, none.

*Finances.*

Expenditures from maintenance funds, \$643,247; total receipts, \$16,492; being \$2,592 from private patients, \$9,715 from reimbursing patients, \$4,185 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.53; the same less repairs and improvements, \$6.38.

Weekly per capita cost of whole service, \$1.79; ward service, \$0.60.

One person employed for every 5.53 patients; 1 nurse for every 13.01 patients.

Average monthly wage for all persons employed, \$43.37; for nurses, \$34.30; men, \$36.81; women, \$32.49.

*Extract from Trustees' Annual Report.*

Dr. James V. May, who came to this hospital in May, 1916, as superintendent, resigned Nov. 30, 1917, to accept the position of superintendent of the Boston State Hospital. The Board of Trustees accepted his resignation reluctantly, and regretted exceedingly to see him leave the institution. He proved himself to be a great organizer and constructor. The Board wishes him continued success in his new field. Dr. Hiram L. Horsman, first assistant physician, was appointed acting superintendent and treasurer.

The following trustees resigned during the year: Mr. Leander F. Herrick, Worcester; Dr. Peter O. Shea, Worcester; Mr. Henry J. Perrault, Worcester; and Mr. John P. Bowditch, Framingham. The vacancies caused by the resignations of the above were filled by the appointment of Mr. Winslow P. Burhoe, Boston; Mr. Frank B. Hall, Worcester; Mr. Francis Prescott, Grafton; and Mr. Ernest L. Anderson, Worcester.

About 16 acres of tillable land have been added to the farm, 8 of which were taken from the Nourse lot, which had grown up with birch bushes and small pine, and 8 acres added to the Valley Farm, which previously had been practically non-productive. The above acreage should increase the total vegetable production of the farm considerably.

*Extract from Acting Superintendent's Annual Report.*

On account of the extreme shortage of employees it has been impossible to do much new work on the grounds, such as road building and grading.

Some improvements have been made on the farm. About 16 acres have been added to the tillable land, 8 being taken from the so-called Nourse lot, which had grown up with birch bushes and scrub pine. All of this growth has been cleared off, most of the stones removed and the land has been plowed. It is the intention to plant this new land with potatoes next season. About 8 acres have been taken in at the Valley Farm property, which heretofore had been practically non-productive. This land has been plowed, harrowed and treated with lime, preparatory to the planting of the next season's crops. This section is particularly adapted to raising vegetables and garden truck, and it would seem that the above addition would increase the total vegetable production markedly. There are still many more acres in this farm that can be taken in with comparatively little cost. The increase of the above acreage was greatly facilitated by the use of the farm tractor purchased last September, which assisted in drawing off the larger stones and uprooting the birches and scrub pine. At Valley Farm the tractor did practically all of the plowing and harrowing.

The pumping equipment installed on the property joining the Valley Farm, to increase the water supply for the hospital, has fully come up to our expectations, and as a result the water supply is adequate for

our needs at present. However, I would advise that a permanent supply be sought and secured as soon as possible.

A fence made of barbed wire 8 feet high with an overhang of 2 feet has been put around the reservoir, with a fairly fine-meshed wire 6 feet high around the inside of the fence, thus preventing patients and small animals from getting into the reservoir.

#### *Worcester Department.*

The new heating system has been installed. This comprises a new boiler house with three new boilers 18 feet long by 72 inches in diameter, equipped with Sturtevant blowers, two vacuum pumps, and two water-feed pumps. All of the wards, as well as the administration building, are now heated by direct radiation, and thus far the system is very satisfactory. This system, which is of the vacuum type, does away with the old indirect system which, for some time, has been obsolete and incapable of heating the building properly.

#### *Dental Work.*

The dental work at the Grafton Department has been done by Dr. E. P. Brigham of Westborough; at the Worcester Department, by Dr. A. J. Harpin of Worcester. Weekly visits have been made by them. Miss Catherine O'Meara served as dental hygienist during July and August.

#### *Employees.*

The employee situation for the past year has been serious. It has been impossible to secure a sufficient number, regardless of the quality, even to insure proper custodial care for our patients. The ward services, particularly the male service and the farm, have suffered the most. It has been difficult at times even to arrange for one attendant on a ward. The work on some of the better wards, at times, was under the direction of patients. With the wards so undermanned, especially our disturbed and violent ones, the situation was dangerous both for the employees and patients. Many escapes might have been prevented had the full quota of employees been maintained. The serious condition was made easier by the fact that some of our older and more reliable employees, of which there were quite a number, stayed with us, to whom we feel very grateful.

At times the farm was so short-handed that some of our teams had to remain in the barn owing to lack of teamsters. At the present time the situation is a little brighter on account of the curtailment of employees in the war industries. The Commission on Mental Diseases came to our assistance by permitting an increase in the wage scale, which helped materially, especially in keeping many of the older employees.

*Training School.*

The training school for nurses has been carried on as usual under the direction of Miss P. J. Porteous, superintendent of nurses. At the present time there are eight pupil nurses taking the affiliated course at the Bellevue and Allied Hospitals in New York City. In the schools of both departments there were eight seniors, seven intermediates and forty-one juniors, fifty-six in all; nine were graduated in September, 1918.

The industrial work on the female service has been carried on by the superintendent of nurses since the resignation of Miss Hartshorn, former industrial teacher. A sale of articles made in the industrial room was held during the New England fair, from which over \$300 was realized.

The annual picnic and sports were held out of doors July 4 for our patients. Several patients attended the New England Fair and circus.

**MEDFIELD STATE HOSPITAL.**

Opened in May, 1896. Present capacity, 1,542.

Valuation of the plant, per capita of capacity, \$1,174; real estate, \$1,009; personal, \$165.

Daily average number of patients on books, 1,694; in hospital, 1,644; in family care, 17; on visit or escape, 33.

Number on books Oct. 1, 1918, 1,658; in hospital, 1,603; in family care, 16; on visit or escape, 39.

All admissions, 138.

Admissions as insane, inclusive of temporary-care cases, 138.

First cases of insanity, 33.

Voluntary admissions, 8.

Admissions as inebriate, none.

*Finances.*

Expenditures from maintenance funds, \$526,638; total receipts, \$17,456; being \$2,299 from private patients, \$12,714 from reimbursing patients, \$2,443 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.12; the same less repairs and improvements, \$5.79.

Weekly per capita cost of whole service, \$1.95; ward service, \$0.83.

One person employed for every 5.01 patients; 1 nurse for every 9.28 patients.

Average monthly wage for all persons employed, \$42.88; for nurses, \$33.73; men, \$36.23; women, \$32.04.

*Extracts from Trustees' Annual Report.*

While merely being present and taking part in the regular meetings, prescribed by law, is but a *minutia* in the general and special activities of the Board, the incidence of attendance is somehow indicative of the orderly interest sustained in the discharge of a public function. One member has been present at five, two at seven, two at eight, one at eleven, and one at each of the monthly meetings. No regular meeting of the Board has failed of a quorum; and on but two occasions, in March and October (on the former a storm was raging which completely dislocated transportation facilities, and on the latter we were in the throes of wrestling with the influenza epidemic, which embraced this institution in a peculiarly virulent form), was there *only* a quorum present. The average attendance at the meetings was 4.83.

It is worthy of more than passing notice that our superintendent, now entering the last quarter of his second year of service at Medfield, while showing effectual grasp of the custodial needs of a hospital for the mentally diseased, has ably risen to the mightier problem of the essentially medical work that deals with the patient, and the causes that made such become a burden to the State. He attempts no clever contrast between medical work and psychiatric work, and bids fair to bring to high development the humanitarian and scientific possibilities, while recasting, so to speak, the clinical responsibilities, of the hospital.

*Extracts from Superintendent's Annual Report.*

The obtaining of a sufficient number of suitable employees has been a problem in the State hospitals of Massachusetts for some years. Last year I felt that it had reached an acute stage at this hospital. This year the situation was so much worse that I think it could rightly be looked upon as critical. The departments most particularly affected were the ward, domestic and farm services. This deficiency of employee help was met in all the departments by the greater employment of patient help. It became necessary to close four wards, and two wards on the male side and two on the female side were conducted as open wards. In spite of every possible effort to obtain employees, and the use of patient help in substitution for the help of employees, there were times when I felt that our disturbed and bedridden patients were not given the care they were entitled to.

This shortage of employees not only showed in the amount of work done, but also had its effect upon the general morale of the institution. Wages were generally increased, but the outside competition was so great that this was of very little value in the way of attracting employees.

A return to what might be considered normal conditions, after the war, undoubtedly will to some extent improve the situation, but I am firmly convinced that the help problem in State hospitals will continue. I am becoming convinced that the best solution of this question is one

that will arrange for better living conditions for the employees generally, and arrange, in particular for the male help, for the building of cottages that will give them home and family life.

#### *Farm.*

This was a very successful year for farming. The hay crop was not quite up to the average, but practically all other crops were above the average. We produced about 560 barrels of apples. Last year a root cellar 30 by 60 by 11 feet was built and only partly filled. This year it is not only filled, but we have had to resort to some of the basements for storing garden produce and apples. The farmer averaged ten less employees than last year, and apparently accomplished much more work. In addition to the usual farm work, sand and crushed stone had to be hauled for the building of a coal trestle.

Several acres of land were cleared up and this coming year will be under cultivation.

During the winter a number of acres of woods was underbrushed and cleaned up, and prepared for park uses for the male patients. A number of cords of wood were obtained in the process.

The locating of the new sewage-disposal plant on the site of the piggery necessitated the removal of the piggery to a new location in the direction of the rear of the "R" building.

In order to meet with the requirements of the food ration as established by the Commission on Mental Diseases, it became necessary to reduce the herd of cows. The cows were killed and used as beef.

#### GARDNER STATE COLONY.

Opened in October, 1902. Present capacity, 748.

Valuation of the plant, per capita of capacity, \$918; real estate, \$738; personal, \$180.

Daily average number of patients on books, 849; in hospital, 796; in family care, 38; on visit or escape, 15.

Number on books Oct. 1, 1918, 848; in hospital, 790; in family care, 41; on visit or escape, 17.

Received by transfer, 35.

#### *Finances.*

Expenditures from maintenance funds, \$266,748; total receipts, \$3,753; being \$102 from private patients, \$1,994 from reimbursing patients, \$1,657 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.12; the same less repairs and improvements, \$5.59.

Weekly per capita cost of whole service, \$2.07; ward service, \$0.67.

One person employed for every 5.19 patients; 1 nurse for every 11.79 patients.

Average monthly wage for all persons employed, \$49.10; for nurses, \$36.19; men, \$38.31; women, \$33.50.

*Extract from Trustees' Annual Report.*

For a number of years the colony has been substantially stationary in its population, as only small appropriations have been made for additional accommodations. Now that the war is over we would suggest that further buildings be erected, not only for the accommodation of more patients, but for the better treatment of those we already have.

We again call attention to the large area of substantially unused land separated from the main part of the colony by the embankment of the Fitchburg Railroad, and now practically inaccessible. The existing access to it is by a narrow pass through the railroad embankment, originally intended for the passage of cattle, but inadequate for wagons. If this pass were widened a large pasture land well adapted for the raising of cattle, and especially sheep, would be opened up. We recommend an appropriation for this widening which can now be economically done while the roadway of the railroad is being widened for a three-track road. Plans for reception of patients on this tract could then be intelligently made.

The annual fair held upon the grounds in September has compared favorably with the fairs of the agricultural associations in our part of the State, and has been largely attended by many, all well pleased with what the State is doing at this colony. We extend a cordial invitation to visit us at our fair next fall.

*Extract from Superintendent's Annual Report.*

The Gates Farm has been purchased by an appropriation granted in 1917, and has been operated throughout the year. It is now known as the Wachusett Cottage.

The building under development as a pottery has had installed in it a steam heater and dryer, and at this plant we will be able to dry many more vegetables than in the past.

The Gilligan place has been purchased, and the roadway planned through this property has been well started.

In all our excavation we find larger boulders or solid ledge, and this year we have been compelled to install a steam drill, as it has no longer been possible by hand drilling to keep up the large amount of work we have to do of this kind.

A barn for 100 sheep has been erected at the Westminster Cottages.

*Future Development.*

The matter of the future development of the colony has received special study by the Board, and recommendations made to the Commission on Mental Diseases.

*War Service.*

Fourteen of our employees have enlisted in the national army. More have stood ready to do so, but have recognized the importance of the work of the carrying on of this institution, and have not entered the service, but have done very special war service here. One hundred joined the Red Cross for 1918. The third Liberty Loan contribution was \$5,000; the fourth Liberty Loan was \$5,700. The Gardner War Chest subscription was \$1,336, the Halifax Relief fund was \$165, and \$482 was contributed to the Gardner Chapter of the Red Cross.

*Hours of Labor.*

Much discussion is going on throughout the country at the present time relative to hours of labor. At this time may I call attention to the hours of labor of those on our "ward service." They now work sixty hours with one day off duty each week in an occupation that is particularly trying. I believe much better service would result if a forty-eight hour week with one day off could be eventually adopted. This must receive serious and early attention if a forty-eight hour week is adopted in industrial enterprises.

*Occupation.*

The various occupations engaged in as outlined in previous reports have been continued and somewhat extended this year, in spite of the prevailing difficult labor situation. We have continued to make all articles of clothing, and have made all knitted underwear and blankets for patients. A second power loom has recently been installed on which we will make our cloth for overalls, jumpers, etc. Our weaving department has reached a point where a better output is desirable, and we have recently engaged Mr. Stephen Smith, in charge of cotton and weaving at the Lowell Textile School, to have general oversight of our weaving department.

*Farm.*

As in past years the production of the farm has been sufficient to meet our needs for the entire year, with the exception of hay and grain for the dairy, much of which had to be purchased. The amount of tillable land is increasing each year, and it is only a question of a short time now when we will be able to raise our hay as well as our vegetables.

Until recently each colony has had its own herd of cows and produced its own milk, but we are now producing milk entirely at one central barn and distributing it from there, keeping the dry cows only at the detached colonies.

### FOXBOROUGH STATE HOSPITAL.

Opened in February, 1893. Present capacity, 374.

Valuation of the plant, per capita of capacity, \$1,672; real estate, \$1,398; personal, \$274.

Daily average number of patients on books, 416; in hospital, 387; on visit or escape, 29.

Number on books Oct. 1, 1918, 453; in hospital, 425; on visit or escape, 28.

All admissions, 47.

Admissions as insane, inclusive of temporary-care cases, 47.

First cases of insanity, 30.

Voluntary admissions, 3.

Admissions as inebriate, none.

### *Finances.*

Expenditures from maintenance funds, \$213,216; total receipts, \$5,801; being \$2,094 from private patients, \$2,890 from reimbursing patients, \$817 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$10.22; the same less repairs and improvements, \$9.80.

Weekly per capita cost of whole service, \$3.46; ward service, \$0.85.

One person employed for every 3.53 patients; 1 nurse for every 9.77 patients.

Average monthly wage for all persons employed, \$53; for nurses, \$36.23; men, \$38.43; women, \$34.40.

### MENTAL WARDS, STATE INFIRMARY.

Opened in October, 1866. Present capacity, 673.

Daily average number of patients on books, 733; in hospital, 721; on visit or escape, 12.

Number on books Oct. 1, 1918, 740; in hospital, 711; on visit or escape, 29.

All admissions, 30.

Admissions as insane, 30.

Received by transfer, 62.

First cases of insanity, 25.

*Extract from Superintendent's Annual Report.*

The statistics for the department for the insane are for the twelve months beginning Oct. 1, 1917, and ending Sept. 30, 1918. There were admitted to this department 92 patients,—62 by transfer and 30 by commitment from the general hospital department. The daily average number of patients has been 720.49. The number remaining Sept. 30, 1918, was 711,—195 men and 516 women. There were 62 deaths,—20 men and 42 women. Four cases were discharged as improved, and 8 as not improved, 12 were transferred to other institutions for the insane, and 7 escaped.

The Infirmary tables show that 997 cases were treated, of which 638 were medical and 359 surgical. Only 1 case of influenza developed in this department.

The work in this large department has been continued throughout the year by Dr. Hanson in charge without any medical assistant, but the welfare of the patients and the kindly spirit that has pervaded the wards has been kept up to the standard of our best traditions.

**BRIDGEWATER STATE HOSPITAL.**

Opened in September, 1886. Present capacity, 818.

Daily average number of patients on books, 860; in hospitals, 852; on visit or escape, 8.

Number on books, Oct. 1, 1918, 864; in hospital, 850; on visit or escape, 14.

All admissions, 72.

Admissions as insane, 72.

First cases of insanity, 56.

*Extract from Superintendent's Annual Report.*

The administration of the criminal insane division, with 40 per cent less service, has been most strenuous and trying; this in the medical director's first year is a coincidence of note, an earned record of value. Faithful support of his assistant physicians, nurses and attendants who stood by, both here and in the prison and almshouse hospitals, has made it possible to span the vacuum in a joint and commendable success.

State Farm farming in normal times, when in retrospective view with the present, affording all the heart could wish in ease of operation, is a vastly different proposition handicapped as it has been this year. Not until the harvest was ended did the first sigh of relief come.

Every other activity was subordinated to the needs of the farm. Each of the industries was suspended in turn,—first, the woodworking shop; second, the chair-seating shop; third and last, the weave shop. Prison labor had been so plentiful for farm work in the past that there had been but little need to exploit broadly the criminal insane service beyond the safe limits of the walled enclosure of 15 acres. A necessity almost direful

compelled the option of taking greater risk for a wider application of the patients' labor. The medical director and his assistants joined with much interest in the proposition, with confidence and faith in ultimate success if the experiment could be conducted with patience and perseverance. The demonstration has been a marked success. Under patient and interested instructors the patients evince much interest and pride in their work. In the dairy barns six months' practice finds them doing 75 per cent of the milking and necessary labor in the care of the herd. In the fields results are surprisingly good. They are not automatic machines, to be set in motion morning and noon, but require constant attention. With tact, interest and individual attention an instructor can produce the goods. Slackers and time-killers need not apply. This season has demonstrated "who's who" in this work. What is said of the Yanks on the French front may well be said of this branch of the service at the State Farm. "They saved the day" this year. Without their aid we would have been far short of the respectable harvest we now have.

#### MONSON STATE HOSPITAL.

Opened in May, 1898. Present capacity, 967.

Valuation of the plant, per capita of capacity, \$1,029; real estate, \$821; personal, \$208.

Daily average number of patients on books, 1,163; in hospital, 1,021; on visit or escape, 142.

Number on books Oct. 1, 1918, 1,145; in hospital, 954; on visit or escape, 191.

All admissions, 179.

Insane admissions, 15; decrease for the year, 57.

Sane epileptics admitted, 164; decrease for the year, 55.

First cases of epilepsy, 147.

#### *Finances.*

Expenditures from maintenance funds, \$291,739; total receipts, \$21,350; being \$9,623 from private patients, \$8,268 from reimbursing patients, \$3,459 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.54; the same less repairs and improvements, \$5.30.

Weekly per capita cost of whole service, \$2.22; ward service, \$0.87.

One person employed for every 5.72 patients; 1 nurse for every 11.69 patients.

Average monthly wage for all persons employed, \$55.24; for nurses, \$44.51; men, \$46.99; women, \$42.21.

The general statistics for the year are as follows:—

	INSANE.			SANE.			TOTAL ON BOOKS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Patients on books of institution Sept. 30, 1917, . . . . .	176	138	314	404	429	833	580	567	1,147
Admissions during year:—									
(a) First admissions, . . . . .	10	3	13	75	59	134	85	62	147
(b) Readmissions, . . . . .	2	—	2	15	15	30	17	15	32
Total admissions, . . . . .	12	3	15	90	74	164	102	77	179
(c) Transfers from other institutions for the insane, . . . . .	2	3	5	—	—	—	2	3	5
2. Total received during year, . . . . .	14	6	20	90	74	164	104	80	184
3. Total under treatment during year, . . . . .	190	144	334	494	503	997	684	647	1,331
Discharged from books during year:—									
(a) As recovered, . . . . .	3	2	5	32	33	65	35	35	70
(b) As improved, . . . . .	—	—	—	1	2	3	1	2	3
(c) As unimproved, . . . . .	2	2	4	10	6	16	12	8	20
(d) As not insane, . . . . .	1	—	1	21	25	46	22	25	47
(e) Transferred to other institutions for the insane, . . . . .	—	—	—	—	—	—	—	—	—
4. Died during year, . . . . .	28	12	40	43	33	76	71	45	116
(f) Died from books during year, . . . . .	31	14	45	75	66	141	106	80	186
5. Patients remaining on books of institution Sept. 30, 1918, . . . . .	159	130	289	419	437	856	578	567	1,145
<i>Supplementary Data.</i>									
6a. Average daily number of patients on books during year, . . . . .	168,308	132,766	301,074	420,961	441,183	862,144	589,270	573,949	1,163,220
6b. Average daily number of patients actually in institution during year, . . . . .	160,454	130,720	291,174	346,298	384,027	730,325	506,753	514,747	1,021,500
6c. Number of patients on visit and escape, . . . . .	7,854	2,046	9,900	74,663	57,156	131,819	82,517	59,202	141,720
7. Average daily number of patients on visit and escape, . . . . .	—	—	—	72	61	133	72	61	133
8. Number of voluntary patients admitted during year, . . . . .	—	—	—	—	—	—	—	—	—
9. Number of temporary-care cases admitted during year, . . . . .	—	—	—	—	—	—	—	—	—
10. Number of patients actually remaining in institution, Sept. 30, 1918, . . . . .	144	128	272	311	371	682	455	499	954
State, . . . . .	134	119	253	289	338	627	423	457	880
Private, . . . . .	6	6	12	11	22	33	17	28	45
Reimbursing, . . . . .	4	3	7	11	11	22	15	14	29
11. Persons given advice or treatment in our-patient departments during year, . . . . .	—	—	—	—	—	—	50	31	81

*Extract from Superintendent's Annual Report.*

Our nursing operations have not been materially diminished, but very much less has been done in the way of personal attention, entertainments, taking patients out, going to town, shopping expeditions, picnics, care of clothing, etc., and we have found it very necessary to utilize to the utmost the help of the patients in nearly every department. The unusual call for workers in the community has taken away a large number of our most competent patients.

The usual affiliation of our nurses with Bellevue Hospital in New York has been carried out.

I have been obliged to limit my clinic work and social service work to personal visits.

Our staff meetings have been held with some regularity, but not with the usual frequency.

We have made a great effort to keep up the case records, and the regular work on the eye and ear has been cared for by Dr. Moore as formerly.

The health of all patients up to the time of the epidemic has been as usual.

The amount of farming has been fair, but production has been much handicapped by a shortage of help.

A renewed effort to establish thorough-bred cows is being made. We now have several, but a special barn for them is needed, and I hope this will be considered next year.

The extreme shortage of help and efficiency of those left should be noted.

**MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED.**

Opened in October, 1848. Present capacity, 1,498,— at Waltham, 1,183; at Templeton, 315.

Valuation of plant, per capita of capacity, \$760; real estate, \$594; personal, \$166.

Daily average number of patients, 1,586.

Number, Oct. 1, 1918, 1,551.

*Finances.*

Expenditures from maintenance funds, \$449,134; total receipts, \$11,260; being \$5,134 from private sources, \$3,497 from reimbursing patients, \$2,629 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.48; the same less repairs and improvements, \$5.23.

Weekly per capita cost of whole service, \$1.77; ward service, \$0.84.

One person employed for every 6.20 patients; 1 nurse for every 9.65 patients.

Average monthly wage for all persons employed, \$47.62; for nurses, \$35.45; men, \$41.55; women, \$34.75.

The general statistics for the year are as follows:—

	Males.	Females.	Totals.
Number present Sept. 30, 1917, . . . . .	949	627	1,576
Admitted during the year, . . . . .	261	92	353
School cases, . . . . .	57	17	74
Custodial cases, . . . . .	75	41	116
By transfer, . . . . .	—	1	1
From visit, . . . . .	51	19	70
From escape, . . . . .	8	—	8
Nominal admissions from visit, . . . . .	55	14	69
Nominal admissions from escape, . . . . .	15	—	15
Whole number of cases within year, . . . . .	1,210	719	1,929
Dismissed within year, . . . . .	285	93	378
Discharged, . . . . .	92	27	119
Capable of self-support, . . . . .	42	7	49
Improved, . . . . .	21	59	80
Not improved, . . . . .	19	5	24
Died, . . . . .	32	15	47
Transferred, . . . . .	—	3	3
On visit, . . . . .	127	44	171
On escape, . . . . .	34	4	38
Number present Sept. 30, 1918, . . . . .	925	626	1,551
State patients, . . . . .	918	619	1,537
Private patients, . . . . .	7	7	14
Daily average number of patients for year, . . . . .	955+	630+	1,586+
Number at school Sept. 30, 1918, . . . . .	649	626	1,275
Number at Templeton Sept. 30, 1918, . . . . .	276	—	276
Applications during the year, . . . . .	—	—	310

*Extract from Trustees' Annual Report.*

As stated in our last annual report a petition and proposed bill were filed with the Legislature of 1918 to make the organization of the school conform to the anti-aid amendment of the Constitution of the Commonwealth. The bill was passed and became chapter 19 of the Special Acts of 1918, and thereafter the trustees elected by the corporation for 1918 were confirmed in their offices by appointment of the Governor.

With the exception of the influenza epidemic, which visited the school with terrific force in October, the health of the inmates has been as good as in the average year.

The crops at Waverley as well as at Templeton have been prolific. Without attempting to enumerate the quantities of the different products, the result has been enough to enable us to can large quantities of perishable fruits and vegetables. We were authorized to install a canning establishment, and the wisdom of the move is shown in the result of one year's use.

The school has, in a measure, felt the effects of this eventful year. It has contributed 23 from its attendants and 40 from the inmates, to take part in military service. The result has been greatly increased responsibility for the officers and added labors for the remaining attendants.

Too great credit cannot be given the loyal body of attendants and officers who, all through that trying time, devoted themselves unfalteringly and effectively to their helpless charges. They remained loyally at their posts, and performed duties which only that devoted band of doctors and nurses throughout the United States who took part in that life and death struggle can estimate and really appreciate. All honor to them. The trustees take this public opportunity to express their thanks and the gratitude of the Commonwealth for their noble service.

*Extract from Superintendent's Annual Report.*

*Out-patient Mental Clinics.* — The staff of the school has continued the out-patient clinics at the school at Waverley every Thursday, and at Worcester, Fall River, New Bedford and Newton once each month during the school year. The clinics in the cities mentioned have been closely co-ordinated with the public school work, and have been held in the rooms of the school committees. In each city we have been able to examine only a few of the pupils who were candidates for examination. No clinics were held during the epidemic of influenza. Six other cities have made requests for similar clinics. During the year advice was sought in these clinics for 966 persons.

Patients are presented at these clinics for diagnosis, prognosis and advice as to care and treatment. The advice given has probably enabled many persons to be cared for at home safely and wisely who otherwise would be sent to institutions at public expense. If similar clinics were available all over the State, and if there were properly qualified and authorized officials to continue to advise and supervise these extra-institutional defectives many of them could be fitted and enabled to live safely at home, and many of the present inmates of our institutions could safely be given their liberty during good behavior, under supervision. It is to be regretted that the last Legislature did not pass the bill providing for the commitment to the custody of the State Commission on Mental Diseases of those recognized defectives who are not otherwise properly cared for. Such provision would permit the liberty of many persons at

small cost who otherwise must be supported by the public in expensive institutions. We now know that while many defectives are inherently vicious and anti-social, many others are harmless and even useful members of society.

Properly administered extra-institutional supervision would provide custodial care for the bad defectives, and freedom for those who can conduct themselves properly in the community.

The demand for additional out-patient mental clinics indicates the need of one or more traveling clinics, perhaps connected with existing institutions,—each with a staff consisting of a psychiatrist, a psychologist, a social worker and a stenographer. This clinical group could be assigned to hold clinics in the various cities and towns at regular intervals, and would be available for the service of school officials, the courts and various social workers. In this way the most remote parts of the State could have expert advice at short notice. The diagnosis of feeble-mindedness calls for expert knowledge and skill, not easily available except in the larger cities under present conditions. During the past year one city requested our staff to examine one group of over 90 children who were presumably feeble-minded. Another city wanted 80 similar children examined at one time. These demands illustrate the modern tendency to study and treat problems of school failure, truancy, incorrigibility, juvenile criminality, etc., from the standpoint of the mental capacity and degree of responsibility of the individual.

*Self-supporting Defectives.*—It has long been assumed that a feeble-minded person could not support himself independently. The war has taught us that this is not a static problem, for scores of our former patients are now working for high wages. Some of these boys have been receiving \$18, \$20, \$25, \$30 and even \$38 per week. The demand for labor has been so great that employers have learned to provide the constant supervision that makes a producer even of a feeble-minded boy. Practically every able-bodied boy of fifteen years or over who went home this summer for a vacation is still at home steadily working for good wages. So many of our male patients have been kept at home to work that our industries have been greatly reduced. Nearly all of our milkers, for instance, went home at one time. We have few painters, teamsters, etc., left. Many of the boys make regular visits to the school, and are clean, well-dressed, and bear themselves with dignity and evident self-respect.

There is a strong suspicion that in the past the difficulty of getting work, and the resulting idleness, has had much to do with the anti-social behavior, at least of the male feeble-minded.

The wage-earning possibilities of the feeble-minded after the war probably will depend upon the amount of immigration and the general economic situation. At the present time the courts are not committing defectives who are earning good wages and are behaving themselves.

*Boys in the Service.*—Forty of our former patients are or have been in the United States military or naval service during the war. Nearly all of them have been sent overseas. Some of them were at Chateau-

Thierry and other battles, and several have been severely wounded. One boy, who was very troublesome at the school, has been a corporal in France, with the first troops that went over. He proudly sent us a letter from his captain saying that he was a good soldier.

*Employees in the Service.* — Twenty-three of our employees are also on our "Roll of Honor," being in the service of their country,—in the army or navy.

*Shortage of Employees.* — It has been impossible to secure a sufficient number of employees at any time during the year. At the present time our employees' roster is 53 less than the required number. This shortage has compelled much harder work and longer hours for every person employed. As a result our usual standards of care and training have not been maintained, and the material and business efficiency of the institution has been temporarily lowered. It has been almost impossible to employ suitable attendants, domestics, farmers, engineers and other mechanics to replace the employees who have entered the military or naval service, or who have been allured elsewhere by the prevailing high wages.

With dismay we have seen the gradual disappearance of the splendid staff personnel built up in former years.

#### WRENTHAM STATE SCHOOL.

Opened in June, 1907. Present capacity, 1,220.

Valuation of plant, per capita of capacity, \$890; real estate, \$744; personal, \$146.

Daily average number of patients, 1,187.

Number Oct. 1, 1918, 1,212.

#### *Finances.*

Expenditures from maintenance funds, \$348,130; total receipts, \$4,107; being \$918 from private sources, \$500 from reimbursing patients, \$2,689 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.60; the same less repairs and improvements, \$5.39.

Weekly per capita cost of whole service, \$1.55; ward service, \$0.74.

One person employed for every 7.18 patients; 1 nurse for every 10.92 patients.

Average monthly wage for all persons employed, \$48.33; for nurses, \$35.21; men, \$50.54; women, \$33.69.

The general statistics for the year are as follows:—

	Males.	Females.	Totals.
Number remaining Sept. 30, 1917, . . . . .	470	627	1,097
Admitted within the year, . . . . .	148	180	328
By commitment, . . . . .	98	130	228
By transfer, . . . . .	—	3	3
Returned from visit, . . . . .	25	39	64
Returned from escape, . . . . .	4	—	4
Nominally from visit, . . . . .	12	7	19
Nominally from escape, . . . . .	9	1	10
Whole number of cases within the year, . . . . .	618	807	1,425
Dismissed within the year, . . . . .	112	101	213
Discharged, . . . . .	28	10	38
Transferred, . . . . .	4	6	10
Died, . . . . .	8	14	22
On visit Sept. 30, 1918, . . . . .	63	71	134
On escape Sept. 30, 1918, . . . . .	9	—	9
Remaining Sept. 30, 1918, . . . . .	506	706	1,212
Daily average number, . . . . .	503.69	633.25	1,186.94
Daily average number of State patients, . . . . .	502.76	681.25	1,184.01
Daily average number of private patients, . . . . .	.93	2.00	2.93

*Extract from Trustees' Annual Report.*

If retrospect, even over no longer period than a year, is the purpose of the communication of the trustees of a State institution, we should discharge this one of our duties by reference to the report of the superintendent. It tells the story of what has happened at Wrentham during the year, and describes adequately the present status of the institution. In that field the trustees can only generalize and say that, under the direction of a superintendent who has established his efficiency both in construction and in the management of such an institution, the school can confidently claim to be fulfilling its purpose to as complete a point as its equipment allows. The equipment of Wrentham is not inferior,—it is admirable, with limitations to which we wish presently to call your attention.

Perhaps because they have been largely occupied with the upbuilding of an institution, looking always to the fuller service it may do, the trustees of Wrentham have a habit of looking forward. They are still thinking of to-morrow as the day holding something in store which to-day indicates is needed to bring the school to fuller realization of its humane and protective purpose. Somehow the past two or three years have given an uncomfortable feeling that the Commonwealth was inclined to look upon Wrentham as a fairly finished job, a view we do not share and which, indeed, our intimate knowledge of the school and our necessary interest in the whole problem of the care of the feeble-minded lead us to feel is not the most constructive view to take.

First, as a matter of physical capacity, and second, and more seriously, as a matter of the utilization to a vital purpose of the existing investment

so that it may render the service it ought to the State, we feel that Wrentham ought to have consideration as a still developing and growing institution.

The school has not grown to its full size, on any estimate of the possibilities of the area which forms its base. The population is now 1,200; the area, 500 acres. It can care for such a number as would occupy several more dormitories without drain upon the location or strain upon the organization. Its success would be in no peril if the accommodations were increased by anywhere from 25 to 50 per cent. The economy of additional use of the base for what could be considered a full number of charges needs no argument, so long as the need for the care of a larger number by the State remains; and the pressure for admission and a long waiting list are evidence that the need exists in a very real way. Past Legislatures, in a progressive and liberal way, have been ready to recognize the need of housing of the feeble-minded, as the existence of such an array of buildings as those at Wrentham proves. There is still room, we believe, for the exercise of that same liberality; but speaking for the interests of the present inmates of the school, and for the interest of the State in having the best thing done for them, the superior need is of quite another sort.

The emphatic need of Wrentham, if it is to do its duty by the Commonwealth, is for such addition to its equipment as would make possible the best treatment of those committed to its care. The intention of the Commonwealth is not, we feel sure, simply the housing and restraint of the feeble-minded. Its humane purpose, and its economical interest combined, form a policy of giving to the mentally defective in such an institution the highest possible development of their limited faculties. The fullest possible employment of the inmates of a feeble-minded school is positively necessary, both for their own happiness and welfare and for the State's utilization to some good account of all that they are capable of doing; and yet, previously, the other policy seems to have been followed as to Wrentham in the increase of its accommodations and the withholding of such buildings and equipment as would supply the means to employ the children to the best advantage. There is actually no industrial building at the institution, and yet industry in the way it would be carried on is essential to the fulfillment of the State's design for such a school. What is accomplished industrially at the present time has to be done in basements or dormitories which are inadequate and unfit and whose space is needed for other uses. The value of assembling the entire school is conceded in all quarters where there is a serious opinion as to the right handling of the feeble-minded. There is no assembly opportunity at Wrentham. We therefore make the single recommendation as to the immediate future of the Wrentham State School that it be provided with an assembly hall, gymnasiums and industrial buildings for boys and girls who must necessarily be kept separate.

*Extract from Superintendent's Annual Report.*

Progress in the care and training of the inmates during the past year has been arrested by the impossibility of securing sufficient numbers of employees to carry the work forward. The various industrial activities incident to the war proved so much more lucrative than institution work that our force of employees was much depleted. In our ward service, at times, the working force was down to 50 per cent of the number required to give the children proper physical care. The other branches of the service have been correspondingly crippled. It has been necessary to temporarily discontinue many of the educational and industrial activities. The faithful employees who remained in the service during this trying period have been overworked, and their patience and endurance have been taxed to the utmost.

Handicapped for want of employees as the institution has been, we have, nevertheless, turned our attention toward assisting in the war work. Two Red Cross rooms have been kept open during the year, one in which our girls have made thousands of surgical dressings, and in the other much knitting and some sewing has been done. These rooms were conducted as regular training rooms in which organized classes performed this Red Cross work. In no classroom in the school was more interest shown by the pupils, thus emphasizing the fundamental principle that interest in the pupil can be aroused in a degree to correspond with the importance of the task at hand.

Quite in harmony with the spirit of production and conservation a fine interest was aroused in the boys towards the farm activities, and although it was almost impossible to secure help in this branch of the service yet we succeeded in raising much larger crops than have been raised in any previous year in the history of the school. The boys' industrial shops were closed early in the spring, and the boys devoted their whole time to farm and garden activities until late in the fall.

The farm cannot be overemphasized in its importance as a training department of great interest to our boys. Here again the pupil can see the result of his effort in the importance of the product produced. Many boys whom we fail to interest in the regular school and industrial rooms, develop a keen interest when brought in touch with the farm.

Boys who are a constant source of anxiety and trouble oftentimes become fairly dependable and trustworthy when the schoolroom is replaced by farm activities. We therefore aim to bring all of our boys in touch with the farm department just as soon as they are old enough. During the summer, even while they are quite young, we give them the opportunity to spend part of the day in the garden where they are taught to cover seed, to distinguish between young garden plants and weeds, to thin young plants to the required distance, to weed, hoe and harvest the mature crops. The care and driving of the farm teams, the care of the large dairy herds, poultry plant and piggery provide interesting and profitable occupation for a large number of the older boys.

The various occupational activities, kitchens, dining rooms, laundry, sewing rooms and domestic departments furnish interesting work to many of the adult girls, as well as providing profitable training for the younger girls, in conjunction with their school work. In fact, these occupational activities are worked out as a part of the regular school curriculum. All of the girls attending school receive as a part of their regular training instruction in the kitchen, dining rooms, laundry, sewing rooms and regular dormitory and housework.

The war has interfered with the uniform development of this institution. Dormitories have been provided for housing, and we find the institution to-day, with a population of nearly 1,200 and another dormitory under construction which will bring the population over 1,300, without an assembly hall, gymnasiums or industrial buildings.

The parole of the feeble-minded from the school has been carried on through the year in a conservative manner. One social worker is giving her entire time to this work and carrying supervision to 65 cases, who are now earning their own living in the community. While all the parole cases are not successful, it has been a small minority only that has not made good. It is, therefore, desirable to use the parole system as far as is reasonably safe, for in just so far as it is successful it enables that increased number of feeble-minded to be brought under supervision.

The defective delinquent problem is becoming an acute and increasingly serious one in the institution. The attempt to care for this class in an institution for the feeble-minded is not successful. The fertile material for these delinquents to use in the form of the ordinary feeble-minded is always at hand in large numbers. It is a doubly injurious proceeding, first, because it is not right to have the happiness and progress of large numbers of the feeble-minded interfered with by the presence of this relatively small element of malcontents, and neither are we doing our duty toward the defective delinquent himself in providing him with this plastic material to influence and carry out his anti-social schemes toward the institution. It is, therefore, with great interest that the report on the studies of the present commission dealing with this far-reaching subject is awaited.

The ten boys in our colony at Belchertown, while acting as caretakers for the property of the future school at that place, have been busy raising crops for the home school. They have shipped to Wrentham 1,500 bushels of potatoes, 200 barrels of apples, 600 bushels of turnips, 280 bushels of shell beans and 3 beeves.

#### THE PRIVATE INSTITUTIONS.

##### THE MCLEAN HOSPITAL.

Opened in October, 1818. Present capacity, 220.

Valuation of the plant, per capita of capacity, \$9,164.80.

Daily average number of patients on books, 219; in hospital, 208; on visit or escape, 11.

Number on books Oct. 1, 1918, 223; in hospital, 209; on visit or escape, 14.

All admissions, 133.

Admissions as insane, 129.

First cases of insanity, 64.

Voluntary admissions, 74.

Commitments as inebriates, none.

Temporary-care admissions, 22.

\* *Extract from Superintendent's Annual Report.*

The medical work of the year has been carried on with some difficulties by a war-depleted staff, and the strain was much increased by the epidemic of influenza which prevailed during September and October. There were 56 cases at the hospital, which included 2 members of the medical staff, 9 patients and 29 nurses. Two died, a woman patient and a man nurse, both of pneumonia. All cases were promptly isolated, at first in special rooms in the two Belknap houses, and later in the Convalescent Home, which was opened for the purpose, and in addition a fairly efficient quarantine of the hospital was maintained for some weeks. There was a slight return of the epidemic in December, with 7 cases, and the death of a woman nurse from pneumonia. This epidemic added very materially to the difficulty of the proper care of the patients because of the further depletion of the nursing service which previously was distinctly inadequate.

With the end of the war the hospital staff is returning. Major Abbot and Captain Wells already have been released from government service. The former has gone to Plattsburg to study war neuroses, and the latter has resumed his work at the hospital.

For the first time since the training school was established it has been necessary to employ attendants, both men and women, under the stress of war conditions. The length of their services has been variable and as a rule short; its character also has been variable, but in some instances surprisingly good. The advanced years of some have brought a more mature judgment and a lessened frivolity which went far in compensation for lack of special knowledge of the work.

The hospital continued its modest contribution to war work up to the end of the year. Sixteen more men nurses enlisted directly from the hospital for the medical service of the government, and in addition to these, fourteen other graduates were enrolled. Twenty-three women graduates also accepted service in army and navy hospitals. The patients, officers, nurses and employees have continued to make various articles for the comfort of the soldiers, a large number of which have been sent to the Naval Auxiliary and to the Red Cross. This has been an important addition to the usual work in the handicraft rooms for women.

There have been more requests during the year for cottages for one patient than ever before. The advantages of such houses to the public

and to the hospital have been mentioned in former reports. Many people desire for their relatives greater privacy than can ordinarily be obtained in a hospital because of the necessarily somewhat intimate association with other patients, who are perhaps sicker or otherwise uncongenial, and are glad to pay an additional sum for this privacy, securing at the same time the advantages of all the resources of the hospital. The number of patients ought not to be materially increased, for there should never be more than a medical superintendent can have personal knowledge of; but there is need of a larger income, and whatever profit might be derived from these cottages would be devoted to increasing the amount of charity that can be given in special cases, and ultimately to insuring a lower average rate for all.

There are now three of these houses, and plans are completed for a fourth, which will be built early next year. There are very desirable sites for three others beyond the Arlington House, and it is strongly urged that they be built. Seven houses might not be occupied all of the time, but it is a safe prediction that demand for them will increase when it is more generally known that such accommodations can be furnished.

#### OTHER PRIVATE LICENSED INSTITUTIONS.

Number, 28. New licenses were granted during the year as follows: —

For the care and treatment of the insane, epileptics, etc., to George H. Torney, M.D., Brookline, and Frank W. Patch, M.D., Wellesley.

For the care and treatment of inebriates, to Augustus T. Schaefer, M.D., Boston, Nathaniel K. Wood, M.D., Roxbury, Peter E. Deehan, M.D., Arlington Heights, and Harry Leo Devine, Framingham.

For the care of the feeble-minded, to Miss Harriet G. Russell, Halifax, and Miss Caroline J. Schofield, Edgartown.

On Sept. 30, 1918, there were under care of these institutions 362 patients; the insane numbered 141. There were 202 admissions of the insane, and 213 dismissals during the year.

The numbers on Sept. 30, 1918, are set forth in the following tabulation: —

NUMBER OF PATIENTS SEPT. 30, 1918.

## UNLICENSED HOMES.

Supervision was continued of unlicensed homes where the insane, feeble-minded, epileptic and persons addicted to the intemperate use of narcotics or stimulants are likely to be found. The requirements of the law were explained in each case.

## FAMILY CARE OF THE INSANE.

## UNDER COMMISSION.

First patient boarded in a family, Aug. 10, 1885. Since placed, 1,278 different patients.

Number in families Oct. 1, 1918, 44 women.

Placed during the year, 5 persons, a decrease of 1.

Daily average number for the year, 46, a decrease of 10.

Number of families having patients, 18, a decrease of 3,— 6 families having 1 patient; 3 families, 2; 4 families, 3; 5 families, 4.

Number of cities and towns in which patients are boarded, 2, a decrease of 1.

The general statistics for the year are as follows:—

	1918.			INCREASE FOR THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Remaining Sept. 30, 1917,	—	47	47	—	17 <sup>1</sup>	17 <sup>1</sup>
Admitted within the year,	—	5	5	—	1 <sup>1</sup>	1 <sup>1</sup>
Viz.: By transfer from institutions,	—	5	5	—	1 <sup>1</sup>	1 <sup>1</sup>
Whole number of cases within the year,	—	52	52	—	18 <sup>1</sup>	18 <sup>1</sup>
Dismissed within the year,	—	8	8	—	15 <sup>1</sup>	15 <sup>1</sup>
Viz.: Discharged,	—	—	—	—	2 <sup>1</sup>	2 <sup>1</sup>
Capable of self-support,	—	—	—	—	1 <sup>1</sup>	1 <sup>1</sup>
Requiring further care,	—	—	—	—	1 <sup>1</sup>	1 <sup>1</sup>
Transferred to institutions,	—	7	7	—	1 <sup>1</sup>	1 <sup>1</sup>
Unsuitable,	—	5	5	—	2	2
Temporarily,	—	—	—	—	1 <sup>1</sup>	1 <sup>1</sup>
Ill,	—	2	2	—	2 <sup>1</sup>	2 <sup>1</sup>
Transferred to family care by trustees,	—	1	1	—	9 <sup>1</sup>	9 <sup>1</sup>
Died,	—	—	—	—	3 <sup>1</sup>	3 <sup>1</sup>
Remaining Sept. 30, 1918,	—	44	44	—	3 <sup>1</sup>	3 <sup>1</sup>
Viz.: Supported by State,	—	42	42	—	2 <sup>1</sup>	2 <sup>1</sup>
Reimbursing,	—	1	1	—	—	—
Private,	—	1	1	—	—	—
Self-supporting,	—	—	—	—	1 <sup>1</sup>	1 <sup>1</sup>
Number of different persons within the year,	—	51	51	—	18 <sup>1</sup>	18 <sup>1</sup>
Number of different persons admitted,	—	5	5	—	1 <sup>1</sup>	1 <sup>1</sup>
Number of different persons dismissed,	—	8	8	—	15 <sup>1</sup>	15 <sup>1</sup>
Daily average number,	—	45.68	45.68	—	11.25 <sup>1</sup>	11.25 <sup>1</sup>
State,	—	42.81	42.81	—	11.22 <sup>1</sup>	11.22 <sup>1</sup>
Reimbursing,	—	1.00	1.00	—	—	—
Private,	—	1.00	1.00	—	.71 <sup>1</sup>	.71 <sup>1</sup>
Self-supporting,	—	.87	.87	—	.68	.68

<sup>1</sup> Decrease.

The total and weekly per capita expenditures of the State on account of patients in private families for the year ending Nov. 30, 1918, and since Oct. 1, 1889, are shown, as follows:—

	Fiscal Year ending Nov. 30, 1918.	Since Oct. 1, 1889.
Payments for board, . . . . .	\$7,638 46	\$692,588 49
Average number of patients, exclusive of private patients, . . .	43.54	184.21
Weekly per capita cost of board, . . . . .	\$3 37	\$2 51
Payments for extra clothing, not included in board rate, . . . .	\$57 75	\$2,652 27
Payments for medical attendance, etc., not included in board rate,	\$1 84	\$4,745 64
Weekly per capita cost of such expenses, outside of board rate,	\$0 03	\$0 02
Weekly per capita cost of support (being cost of board, clothing, medical attendance, etc.).	\$3 40	\$2 55
Payments for supervision (being transportation, salaries and expenses of visitors).	\$1,805 22	\$90,161 43
Average number of patients, . . . . .	44.54	190.56
Weekly per capita cost of supervision, . . . . .	\$0 78	\$0 33
Weekly per capita cost of support and supervision, . . . . .	\$4 18	\$2 88

#### UNDER TRUSTEES.

The trustees of institutions were authorized, by chapter 458 of the Acts of 1905, to place their patients in the care of private families under substantially the same conditions as the Commission.

First patient boarded June 13, 1905. Since placed, 716 different patients.

Number in families Oct. 1, 1918, 243,—22 men and 221 women.

Placed during the year, 98 persons, a decrease of 19.

Daily average number for the year, 257.

Number of families having patients, 129, a decrease of 16,—79 families having 1 patient each; 16 families, 2; 14 families, 3; 13 families, 4; 5 families, 5; 1 family, 6; 1 family, 7.

Number of towns in which patients are boarded, 71, an increase of 4. Largest number of patients in any one town, 26; of families, 13.

The general statistics for the year are as follows:—

	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	Westborough Hospital.	Boston Hospital.	Grafton Hospital.	Medfield Hospital.	Gardner Colony.	Totals.
Remaining Sept. 30, 1917,	45	47	29	27	44	11	18	23	35	279
Men,	—	8	4	1	—	—	1	13	13	29
Women,	45	39	25	26	42	11	18	22	22	250
Admitted within the year,	24	3	3	8	9	4	8	5	34	98
Men,	—	1	1	—	—	—	1	10	13	85
Women,	—	2	2	8	9	4	7	5	24	—
Nominally admitted from visit or escape, for discharge,	24	—	—	—	—	—	—	—	—	—
Whole number of cases within the year,	69	50	32	35	53	15	26	28	69	377
Dismissed within the year,	26	13	12	7	25	7	5	12	28	135
Men,	—	3	2	—	2	—	5	12	11	18
Women,	26	10	10	7	23	7	5	12	17	117
Viz.: Returned to institutions,	16	9	11	7	22	5	4	11	26	111
Men,	—	2	2	—	2	—	—	—	10	16
Women,	16	7	9	7	20	5	4	11	16	95
Discharged,	—	—	—	—	1	1	1	1	1	6
Men,	—	—	1	—	—	1	—	—	1	5
Women,	—	—	1	—	—	1	—	—	—	8
Died,	—	5	—	—	—	—	—	—	—	—
Men,	—	—	—	1	—	—	1	—	—	8
Women,	—	5	—	—	—	—	—	—	—	—
On visit Sept. 30, 1918,	4	2	—	—	—	—	—	—	—	—
On escape Sept. 30, 1918,	1	—	—	—	—	—	—	—	1	2
Remaining Sept. 30, 1918,	43	37	20	28	—	8	21	16	41	242
Men,	—	6	3	1	—	—	1	1	11	23
Women,	43	31	17	27	28	8	20	15	30	219
Supported by the State,	33	26	13	25	28	3	18	10	28	184
Private,	7	1	5	2	—	3	—	1	—	19
Self-supporting,	3	10	2	1	—	2	3	5	13	39
Daily average number,	44.67	42.98	23.57	26.04	37.03	8.11	19.57	17.06	37.99	257.02
Men,	—	7.10	2.84	1.00	.97	—	.76	.19	10.66	23.52
Women,	44.67	35.88	20.73	25.04	36.06	8.11	18.81	16.87	27.33	233.50
State,	32.55	31.42	14.23	23.77	35.54	3.87	17.45	11.06	27.83	197.72
Private,	—	7.10	1.00	7.65	2.00	1.49	—	1.00	—	21.63
Self-supporting,	5.02	10.65	1.79	.27	.27	2.75	2.12	5.00	10.16	37.66

## THE COMMISSION.

### PROCEEDINGS.

Eleven meetings of the Commission were held during the year. Forty visits of inspection were made by the director and members of the Commission, in addition to 384 by the assistants to the director, pathologist, assistant pathologist, the financial agent and director of social service.

Twelve visits were made to the institutions relative to the deportation matters by the assistants to the director. One hundred visits relative to matters of support were made to institutions by agents of the support department.

Careful attention has been paid to all complaints as to commitments, discharge, death or treatment of patients.

### PLANS AND SPECIFICATIONS

for new construction and additions to existing buildings were examined and approved.

### ESTIMATES OF STATE EXPENSES FOR 1919

on account of the insane, feeble-minded and epileptic amounted to \$7,028,947, including estimates for the maintenance of the insane departments of the State Infirmary and Bridgewater State Hospital, whose estimates are inseparable from those of the institutions as a whole which are supervised by the State Board of Charity. They comprise estimates by the State Board and by the State institutions.

### ESTIMATES BY THE MASSACHUSETTS COMMISSION ON MENTAL DISEASES.

1. Personal services,	\$70,330
2. Office and incidental expenses,	13,900
3. Traveling and other expenses,	4,400
4. Transportation and medical examination of State paupers,	7,500
5. Support of insane paupers boarded in families,	9,000
6. Support of State paupers in Hospital Cottages for Children,	12,000
7. Investigation as to the nature, causes, results and treatment of mental diseases and defects and the publication of the results thereof,	8,500
	<hr/>
	\$125,630

## ESTIMATES FOR STATE INSTITUTIONS

relate (1) to maintenance expenses, inclusive of repairs and improvements, and (2) to special expenditures for new buildings, additions, new furnishings and equipment in the main.

## ESTIMATES FOR MAINTENANCE EXPENSES

as requested by the trustees appear in the following tabulation. The amounts approved by the Commission are also shown.

INSTITUTIONS.	TOTALS.	
	Requested by Trustees.	Approved by Commission.
Worcester Hospital, . . . . .	\$596,638 10	\$538,546 88
Taunton Hospital, . . . . .	547,758 14	473,833 68
Northampton Hospital, . . . . .	384,873 67	343,539 87
Danvers Hospital, . . . . .	653,399 22	476,470 04
Westborough Hospital, . . . . .	660,202 00	468,494 08
Boston (including Psychopathic Department), . . . . .	813,078 13	686,710 62
Grafton Hospital, . . . . .	833,353 64	674,731 20
Medfield Hospital, . . . . .	708,082 74	568,831 61
Foxborough Hospital, . . . . .	266,808 00	204,884 13
Gardner Colony, . . . . .	340,763 90	308,677 61
Totals, . . . . .	\$5,804,957 54	\$4,744,269 72
Monson Hospital, . . . . .	\$433,046 98	\$361,293 14
Massachusetts School for the Feeble-minded at Waltham, . . .	636,927 00	524,688 53
Wrentham School, . . . . .	399,040 33	383,489 09
Totals, . . . . .	\$1,469,014 31	\$1,269,470 76
Aggregates, . . . . .	\$7,273,971 85	\$6,014,190 48

ESTIMATES FOR SPECIAL APPROPRIATIONS  
for the State institutions under the supervision of this Commission have been prepared, and are classified below:—

*Worcester State Hospital.*

Renovation of plumbing, . . . . .	\$6,000 00
Alterations of buildings at Hillside Farm, . . . . .	6,000 00
Constructing and furnishing cottage for assistant superintendent, . . . . .	5,000 00
Repairing damage by recent fire, . . . . .	15,000 00
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	\$32,000 00

*Taunton State Hospital.*

Constructing and furnishing cottage for assistant superintendent, . . . . .	\$5,000 00
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*Northampton State Hospital.*

Purchase of land for farm colony, . . . . .	\$25,000 00
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*Danvers State Hospital.*

Constructing and furnishing cottage for assistant superintendent, . . . . .	\$5,000 00
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*Westborough State Hospital.*

Constructing and furnishing cottage for assistant superintendent, . . . . .	\$5,000 00
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*Boston State Hospital.*

Constructing and furnishing kitchen and dining-room building, West Group, . . . . .	\$100,000 00
Constructing and furnishing kitchen and dining-room building, East Group, . . . . .	110,000 00
Constructing and furnishing home for 90 nurses, East Group, . . . . .	80,000 00
Constructing and furnishing cottage for assistant superintendent, . . . . .	5,000 00
	<hr/>
	\$295,000 00

*Grafton State Hospital.*

Fire protection, . . . . .	\$8,100 00
Constructing vegetable cellar, . . . . .	3,411 50
	<hr/>
	\$11,511 50

*Medfield State Hospital.*

Constructing and furnishing cottage for assistant superintendent, . . . . .	\$5,000 00
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*Gardner State Colony.*

Constructing and furnishing assembly hall and chapel, . . . . .	\$35,574 00
Constructing and furnishing a building for 10 disturbed patients, . . . . .	10,000 00
Constructing underpass, . . . . .	12,000 00
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	\$57,574 00

*Foxborough State Hospital.*

For purchase of land and alteration of property, . . . . .	\$25,000 00
Increase in appropriation for acute service building which was authorized by last Legislature, . . . . .	27,541 72
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	\$52,541 72

*Monson State Hospital.*

For constructing cottage for assistant superintendent, . . . . .	\$5,000 00
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*Proposed School for Feeble-minded at Belchertown.*

	Amount.	Already available.	To be appropriated.
Constructing and furnishing custodial building for 140 inmates.	\$95,000	\$11,000	\$84,000
Dormitory building for 105 inmates, . . . . .	73,000	50,000	23,000
Two homes for 22 employees each, . . . . .	36,000	—	36,000
Storehouse and bakery, . . . . .	80,000	20,000	60,000
Laundry building, . . . . .	33,000	20,000	13,000
Power house and equipment, . . . . .	108,000	—	108,000
Connecting tunnels and piping, . . . . .	53,000	—	53,000
Roads, grading, etc., . . . . .	18,500	—	18,500
	<hr/>	<hr/>	<hr/>
	\$496,500	\$101,000	\$395,500

<sup>1</sup> Chapter 160, Resolves of 1916; chapter 127, Resolves of 1917.

**SUMMARY OF RECOMMENDATIONS FOR SPECIAL APPROPRIATIONS.***Insane.*

Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$90,000 00
Number of patients provided for, . . . . .	10
Average per capita cost, . . . . .	\$1,000 00
Number of nurses provided for, . . . . .	90
Average per capita cost, . . . . .	\$888 88
Patients and nurses provided for, . . . . .	100
Average per capita cost, . . . . .	\$900
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	406,127 22
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Total, . . . . .	\$496,127 22

*Feeble-minded.*

Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$143,000 00
Number of patients provided for, . . . . .	245
Number of nurses provided for, . . . . .	44
Patients and nurses provided for, . . . . .	289
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	252,500 00
Total, . . . . .	\$395,500 00

*Epileptic (Sane).*

Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	\$2,500 00
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*All Classes.<sup>1</sup>*

Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$233,000 00
Number of patients provided for, . . . . .	255
Number of nurses provided for, . . . . .	44
Patients and nurses provided for, . . . . .	389
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	661,127 22
Total, . . . . .	\$894,127 22

## FINANCIAL STATEMENT.

*Statement of Appropriations made to the Commission for the Fiscal Year ending Nov. 30, 1918.*

	Appropriations.	Amount expended.	Balance.
Traveling, office and contingent expenses, . . . . .	\$17,341 36 <sup>2</sup>	\$12,971 55	\$4,369 81 <sup>3</sup>
Salary of director, . . . . .	7,500 00	7,500 00	-
Salaries and wages of officers and employees, . . . . .	54,000 00	45,754 90	8,245 10
Transportation and medical examination of State charges, . . . . .	8,321 91 <sup>4</sup>	5,845 06	2,476 85
Support of State charges boarded out in families, . . . . .	9,000 00	7,698 05	1,301 95
Support of State charges in Hospital Cottages for Children, . . . . .	13,000 00	9,851 94	3,148 06
For investigation as to the nature, causes, results and treatment of mental disease and defect, and the publication of the results thereof, . . . . .	7,000 67 <sup>5</sup>	6,935 42	65 25
	\$116,163 94	\$96,556 92	\$19,607 02

<sup>1</sup> Per capita cost of proposed construction not published as part of money for this purpose was appropriated in former years.

<sup>2</sup> Including \$341.36, transferred from balance of 1917.

<sup>3</sup> Cost of annual report of 1917, \$1,421.44, which amount the State Auditor will be requested to bring forward when report is completed and billed by State printer.

<sup>4</sup> Including \$321.91, refunds.

<sup>5</sup> Including \$0.67, transferred from balance of 1917.

*Statement of Receipts and Disbursements of the Commission for the Year ending Nov. 30, 1918.*

*Receipts.*

Payable to State Treasurer:—

For support of patients in family care,	. . . . .	\$526 48
Refunds on appropriations,	. . . . .	321 91
Licenses for private institutions,	. . . . .	1,650 00
Treatments for syphilis,	. . . . .	2,362 05
Interest on bank account,	. . . . .	87 60
		\$4,948 04

Total payable to State Treasurer, . . . . .

Payable to State institutions:—

For support of patients in:—

Worcester Hospital,	. . . . .	\$8,470 42
Taunton Hospital,	. . . . .	5,693 89
Northampton Hospital,	. . . . .	4,406 84
Danvers Hospital,	. . . . .	5,390 65
Westborough Hospital,	. . . . .	9,802 20
Boston Hospital,	. . . . .	12,827 00
Grafton Hospital,	. . . . .	3,225 44
Medfield Hospital,	. . . . .	7,923 62
Gardner Colony,	. . . . .	1,387 93
Monson Hospital,	. . . . .	2,787 27
Foxborough Hospital,	. . . . .	1,175 58
Massachusetts School for Feeble-minded,	. . . . .	522 99
Wrentham School,	. . . . .	4 30
State Infirmary,	. . . . .	2,295 35
State Farm,	. . . . .	1,832 99
		\$67,746 47

Total payable to State institutions, . . . . .

Total receipts, . . . . .

*Disbursements.*

Paid State Treasurer,	. . . . .	\$4,948 04
Paid State institutions,	. . . . .	67,746 47
		\$72,694 51

## FAMILY CARE OF THE INSANE.

Under chapter 504, section 71, of the Acts of 1909 the Commission is authorized to place in private families certain suitable inmates of the institutions under supervision. For a full report of this work as conducted by the Commission and by the trustees of certain institutions, see page 113.

## THE SUPPORT DEPARTMENT.

It is the duty of this department to ascertain whether the patients committed to the various State hospitals for the insane, and also the institutions for the epileptic and feeble-minded, as public charges have a legal right to remain in said institutions. If they are aliens and have no such right, and have landed in the United States within five years of their commitment, investigation is made as to their liability to deportation under the United States Immigration laws, and the result of such investigation is reported to the Commission. If in the United States more than five years and in Massachusetts less than five years, such aliens are reported for deportation by this Commission. Under the provisions of section 69 of chapter 504 of the Acts of 1909 "the Commission may also remove any pauper inmates of institutions under its supervision who are not subject to the orders of a court to any country, State or place where they belong." If native born and having no claim upon this Commonwealth for support, investigation is made to determine upon what State, if any, they have a claim, and when so determined this is also reported to the Commission for action.

The financial condition of those entitled to remain is investigated, and if there are means legally available and sufficient to warrant it, the patient is reported to the hospital, to be supported privately at a rate to be determined by the hospital authorities. If the means are not sufficient for that purpose, a reimbursing rate is made by this department and submitted to the Commission for approval.

The following shows in detail the work of this department:—

Visits to the hospitals,	105
Histories taken at the hospitals,	3,089
Visits to relatives of patients and others for investigation,	1,655
Cases submitted for deportation by the United States Commissioner of Immigration,	93
Cases submitted for deportation by the Commission,	196

*Support Cases.*

Cases pending Nov. 30, 1917,	512
New cases,	1,024
	— 1,536
Made private,	125
Made reimbursing,	413
Accepted as State charges,	642
Pending Nov. 30, 1918,	356
	— 1,536

*Private Cases.*

Cases pending Nov. 30, 1917,	18
New cases reported to hospitals,	150
	— 168
Reported by hospitals as having been made private,	125
Made reimbursing,	14
Dropped, accepted as State charges,	5
Pending Nov. 30, 1918,	24
	— 168

*Reimbursing Cases.*

Cases remaining Nov. 30, 1917,	876
New cases,	413
	— 1,289
Made private of the above,	16
Died,	134
Discharged or on visit Nov. 30, 1918,	171
Dropped, accepted as State charges,	88
Remaining in hospitals Nov. 30, 1918,	880
	— 1,289

Number and Board Rates of Reimbursing Patients for the Year ending Sept. 30, 1918.

INSTITUTION.	DAILY AVERAGE NUMBER.		AVERAGE WEEKLY PER CAPITA RATE.	NUMBER OCT. 1, 1918.		DAILY AVERAGE NUMBER.	AVERAGE WEEKLY PER CAPITA.	UNITED STATES DEPORTATION CASES.	
	Males.	Females.		Males.	Females.				
Worcester Hospital,	34.17	34.50	\$3.92	31	68	-	-		
Taunton Hospital,	41.67	52.17	4.70	52	30	.10	\$14.00		
Northampton Hospital,	35.08	63.18	3.56	35	58	-	-		
Danvers Hospital,	42.38	91.84	2.86	34	99	-	-		
Westborough Hospital,	33.61	96.50	3.28	28	93	-	-		
Boston Hospital,	33.16	90.56	4.01	30	115	.09	14.00		
Grafton Hospital,	27.31	29.39	3.56	22	32	-	-		
Medfield Hospital,	12.29	51.76	4.02	5	34	-	-		
Monson Hospital,	12.56	35.82	3.61	17	28	-	-		
Gardner Colony,	9.14	4.00	3.07	6	6	-	-		
Mental Wards, State Infirmary,	.38	8.16	4.65	-	7	-	-		
Foxborough Hospital,	8.59	6.59	3.86	7	6	-	-		
Bridgewater Hospital,	6.12	-	4.49	4	-	-	-		
Massachusetts School for the Feeble-minded,	10.76	14.41	3.22	13	12	-	-		
Wrentham School,	2.29	3.44	1.87	4	3	-	-		
Family care,	-	5.61	3.07	-	1	-	-		
Totals,	309.50	638.75	\$3.56	288	592	.19	-		

*Receipts for Support of Reimbursing Patients.*

LOCATION OF PATIENTS. .	Year ending Nov. 30, 1917.	Year ending Nov. 30, 1918.	Total since Jan. 1, 1904.
Worcester Hospital, . . . . .	\$19,807 52	\$23,402 17	\$251,887 95
Taunton Hospital, . . . . .	20,473 28	17,467 36	198,898 64
Northampton Hospital, . . . . .	17,521 02	17,138 53	202,012 37
Danvers Hospital, . . . . .	25,133 34	24,631 35	322,047 15
Westborough Hospital, . . . . .	22,269 39 <sup>1</sup>	25,378 70	213,233 73
Boston Hospital, . . . . .	22,930 72	26,910 25	150,984 53
Grafton Hospital, . . . . .	10,777 78	9,714 85	109,414 94
Medfield Hospital, . . . . .	12,318 50	12,714 10	129,926 19
Gardner Colony, . . . . .	3,517 29	1,993 61	20,265 97
Mental Wards, State Infirmary, . . . . .	1,075 14	2,295 35	15,465 05
Bridgewater Hospital, . . . . .	1,135 82	1,832 99	10,925 78
Monson Hospital, . . . . .	6,914 64	8,268 51	49,849 37
Foxborough Hospital, . . . . .	4,728 32	2,890 50	19,317 31
School for the Feeble-minded, . . . . .	4,171 60	3,497 10	16,494 65
Wrentham School, . . . . .	1,050 57	499 81	5,616 11
Hospital Cottages, . . . . .	-	-	673 37
Family care, . . . . .	885 77	526 48	14,017 32
Foxborough labor, . . . . .	-	-	3,370 45
Almshouses, . . . . .	-	-	923 66
	<b>\$174,710 70</b>	<b>\$179,161 66</b>	<b>\$1,735,324 54</b>

<sup>1</sup> Does not agree with Auditor's figure.

## DEPORTATIONS.

There were considered for deportation 612 cases, compared with 577 for the previous year. The Commission deported 115 to other States, 10 to other countries,—in all, 125. In addition, the United States Immigration Commissioner deported 18. Altogether, 143 have been deported since Dec. 1, 1917.

Since Oct. 1, 1898, 2,525 persons have been deported by this Commission, of whom 86 returned once, 11 twice and 2 four times. Of those returning, 13 are now in institutions in this State.

Details of the disposition of cases under consideration for deportation are shown in the following table:—

	COMMISSION.						UNITED STATES IMMIGRATION COMMISSIONER.						TOTALS.		
	Males,	Females,	Total,	Males,	Females,	Total,	Males,	Females,	Total,	Males,	Females,	Total,	1917.	1918.	Increase.
Cases pending Nov. 30, 1917,															
Since reported,	134	38	172	203	50	253	155	221	327	248	329	325	79	44	
Total cases under consideration,	270	105	375	137	100	237	407	205	612	577	612	612	35		
Deported,	79	46	125	6	12	18	85	58	143	126	143	115	17		
Viz.: Other States,	73	42	115	-	-	-	73	115	115	84	115	115	31		
Other countries,	6	4	10	6	10	16	16	12	14	26	30	26	4		
Special cases not handled under immigration laws, and pending deportation,	9	6	15	5	4	9	14	10	24	2	12	24	2	10	
Discharged,	8	6	14	5	4	9	13	10	23	15	23	23	28	28	
Viz.: Care of friends,	1	1	1	-	-	-	1	1	1	1	1	1	1	1	
Escaped,	8	3	11	11	8	19	19	19	-	-	-	-	2	-	
Returned to penal institutions,	3	1	4	6	2	8	9	3	12	18	18	12	8	6	
Died,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Withdrawn,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Viz.: Private patients,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rejected by Immigration Commissioner,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Became United States cases (act of Feb. 5, 1917),	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dropped from further consideration,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Viz.: Impracticable to deport,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
No place to go,	2	4	6	-	-	-	-	2	4	6	5	5	6	1	
Total cases closed,	101	63	164	28	26	54	129	89	218	250	250	218	32	1	
Cases pending Nov. 30, 1918.	169	42	211	109	74	183	278	116	394	327	394	394	67		
Viz.: Not in condition to deport,	6	2	8	1	1	2	3	25	16	8	5	8	3		
Awaiting action,	24	14	38	88	51	139	211	73	284	81	215	215	40		
Delayed because of war conditions,	123	22	145	4	12	33	4	4	11	11	4	11	69		
Under sentence,	4	3	6	9	7	15	15	15	42	42	42	42	7		
On visit,	6	1	7	8	14	14	15	15	-	-	-	-	15		
On escape,	6	-	-	-	-	-	-	-	-	-	-	-	-	15	

1 Decrease.

#### TRANSFERS.

Five hundred and three patients have been transferred within the year,— 472 to public institutions and families; 31 to private institutions.

#### THE FINANCIAL DEPARTMENT.

The following is submitted as the report of the financial department for the year ending Nov. 30, 1918.

There was expended by the Commission on Mental Diseases for office expenses, travel, transportation, board of patients, etc., \$96,556.92 (see table on page 120); for construction work at the institutions, \$475,728.07 (Special Appropriations, see table on page 172); and by the institutions for maintenance, \$6,228,524.94 (for detail, see table on page 160), making a total expenditure of \$6,800,809.93. The receipts by the Commission were \$4,948.04, and by the institutions \$489,209.19, making a total of \$494,157.23.

The Legislature of this year appropriated to this Commission the sum of \$895,532.31 for new buildings and repairs, as shown on page 172.

#### COMBINED PURCHASING.

The conditions of the market during the last year of the war were such that combined purchases could be made only on a limited number of articles. With the signing of the armistice an immediate improvement was felt, and it now appears that the Stewards' Association may, in the near future, again cover the field as in previous years, and even increase the number of articles bought in combination. Studies have been made in the standardization of a large number of additional commodities which are being given consideration by the Stewards' Association.

### FUEL.

A shortage in many of the institutions in the early months of the year caused the Commission much anxiety. Under chapter 177, Special Acts of 1918, the General Court appropriated to the Commission the sum of \$350,000 to be distributed by the Commission for the purchase of fuel to carry the institutions to the 1st of April, 1919. The amount necessary for all institutions was obtained with the aid of the New England Fuel Administrator.

The office of the New England Fuel Administrator was of great service during the year, and it is with pleasure that we mention its valuable assistance.

## GENERAL MATTERS.

## NEW LEGISLATION.

The following acts were passed by the Legislature of 1918:—

## GENERAL ACTS, CHAPTER 38.

## AN ACT REQUIRING TRANSFERS OF FUNDS APPROPRIATED FOR STATE DEPARTMENTS TO BE APPROVED BY THE AUDITOR OF THE COMMONWEALTH.

*Be it enacted, etc., as follows :*

SECTION 1. No transfer of funds from one item of account to another on the books of any officer or board having charge of any department, institution or undertaking receiving an annual appropriation from the treasury of the commonwealth, upon which items of account such annual appropriation is based, shall be made without the written approval of the auditor of the commonwealth.

SECTION 2. This act shall take effect upon its passage. [Approved March 1, 1918.

## GENERAL ACTS, CHAPTER 121.

## AN ACT TO PLACE THE HOSPITAL COTTAGES FOR CHILDREN UNDER THE SUPERVISION OF THE COMMISSION ON MENTAL DISEASES.

*Be it enacted, etc., as follows :*

SECTION 1. The commission on mental diseases shall have general supervision of the Hospital Cottages for Children at Baldwinsville and may, with the approval, in each case, of the trustees and superintendent of the said institution, place and keep therein such children as the commission may select. Children so placed shall be maintained at such expense to the commonwealth as shall be determined by said commission and said trustees. The commission shall have all the powers relative to state charges in said institution and to their support which it now has relative to state charges in other institutions under its supervision.

SECTION 2. This act shall take effect upon its passage. [Approved April 2, 1918.

## GENERAL ACTS, CHAPTER 139.

## AN ACT RELATIVE TO THE COMMITMENT AND TRANSFER OF DIPSOMANIACS AND OTHERS.

*Be it enacted, etc., as follows :*

SECTION 1. Chapter five hundred and four of the acts of nineteen hundred and nine, as amended in section fifty by chapter five hundred and fifty-eight of the acts of nineteen hundred and fourteen, by chapter seventy-three of the General Acts of nineteen hundred and fifteen and by chapter sixty-nine of the General Acts of nineteen hundred and seventeen, is hereby further amended by striking out said section fifty and substituting the following:— *Section 50.* Any of the judges named in section twenty-

nine, and the municipal court of the city of Boston, may commit to the Norfolk state hospital, to the McLean hospital, or to a private licensed hospital or house, any male or female person, who is subject to dipsomania or inebriety either in public or private, or who is so addicted to the intemperate use of narcotics or stimulants as to have lost the power of self control. The magistrate who receives the application for such commitment shall examine on oath the applicant and all other witnesses, shall reduce the application to writing and cause it to be subscribed and sworn to by the applicant. He shall cause a summons and copy of the application to be served upon such person in the manner provided by section twenty-five of chapter two hundred and seventeen of the Revised Laws. Such person shall be entitled to a hearing, unless after receiving said summons he shall in writing waive a hearing; and in that case the magistrate may issue an order for his immediate commitment as aforesaid, without a hearing, if he is of the opinion that the person is a proper subject for custody and treatment in the hospital or other place to which he is committed. The commitment may be made forthwith, if the examining physician certifies the case to be one of emergency. A person committed as aforesaid may be detained for two years after the date of his commitment, and no longer.

SECTION 2. Upon the passage of this act the commission on mental diseases shall transfer to the Norfolk state hospital and to the custody of the superintendent thereof, under the provisions of section sixty-nine of said chapter five hundred and four, as amended by section one of chapter three hundred and thirty-four of the acts of nineteen hundred and eleven and by chapter one hundred and thirty-one of the General Acts of nineteen hundred and seventeen, all female persons who are inmates of state hospitals for the insane and were committed thereto under the provisions of section fifty of said chapter five hundred and four, amended as aforesaid.

SECTION 3. Said chapter five hundred and four is hereby amended by striking out section fifty-four and substituting the following:—*Section 54.* Any person who is a dipsomaniac or inebriate or addicted to the intemperate use of narcotics or stimulants, who is desirous of submitting himself for treatment in the Norfolk state hospital, or in any hospital or receptacle licensed under the provisions of chapter two hundred and eighty-five of the General Acts of nineteen hundred and sixteen, as amended by chapter two hundred and thirty-two of the General Acts of nineteen hundred and seventeen, and makes written application therefor, may be received by the trustees, superintendent or manager of such hospital or receptacle and detained therein as a boarder and patient. No such person shall be detained more than three days after having given notice in writing of his intention or desire to leave the institution. The charges for the support of such a person in said state hospital shall be governed by the provisions of law applicable to the support of an insane person in a state hospital, provided that the approval of the state board of charity shall be obtained in writing.

SECTION 4. This act shall take effect upon its passage. [Approved April 12, 1918.

## GENERAL ACTS, CHAPTER 141.

## AN ACT RELATIVE TO THE PURCHASE FOR PUBLIC INSTITUTIONS OF ARTICLES PRODUCED BY THE BLIND.

*Be it enacted, etc., as follows :*

SECTION 1. Articles or supplies, other than the products of prison labor, required by any public institution in the commonwealth, shall be purchased by the superintendent or other officer in charge of the institution from the Massachusetts commission for the blind, provided that the commission has the same for sale, and that they were produced by persons under the supervision of the said commission or produced in industrial schools or workshops under the supervision of the commission.

SECTION 2. This act shall take effect upon its passage. [Approved April 12, 1918.

## GENERAL ACTS, CHAPTER 142.

## AN ACT TO PROVIDE FOR THE TEMPORARY CARE OF PERSONS SUFFERING FROM MENTAL DISEASES WHO ARE IN THE MILITARY AND NAVAL SERVICE OF THE UNITED STATES.

*Be it enacted, etc., as follows :*

SECTION 1. The superintendent of any state hospital for the care, treatment or observation of the insane, and the McLean hospital, may receive for care and treatment any person in the military or naval service of the United States who is suffering from mental disease and cannot properly be cared for at the army post or naval station or hospital where he is stationed or happens to be, upon the written application of the medical officer in charge of such post, station or hospital, who shall make a full statement of the case in such form as may be prescribed by the commission on mental diseases. Unless otherwise ordered by the proper military or naval authority, persons received into a hospital under the provisions of this act may be detained therein for a period not exceeding sixty days, except that further detention, if necessary, may be authorized by the commission on mental diseases.

SECTION 2. The commission on mental diseases is hereby authorized to make contracts with the federal government relative to the support of persons received and cared for under the provisions of this act on such terms as may be agreed upon.

SECTION 3. This act shall take effect upon its passage. [Approved April 12, 1918.

## GENERAL ACTS, CHAPTER 153.

## AN ACT TO PROVIDE FOR ASCERTAINING THE MENTAL CONDITION OF PERSONS COMING BEFORE THE COURTS OF THE COMMONWEALTH.

*Be it enacted, etc., as follows :*

SECTION 1. In order to determine the mental condition of any person coming before any court of the commonwealth, the presiding judge may, in his discretion, request the commission on mental diseases to assign a

member of the medical staff of a state institution under its supervision to make such examinations as may be deemed necessary.

SECTION 2. No fee shall be paid for such examination, but the examining physician may be reimbursed for his reasonable travelling expenses.

SECTION 3. This act shall take effect upon its passage. [Approved April 20, 1918.]

GENERAL ACTS, CHAPTER 176.

AN ACT RELATIVE TO THE DISPOSAL OF FUNDS AND INTEREST THEREON OF PATIENTS IN CERTAIN STATE INSTITUTIONS.

*Be it enacted, etc., as follows :*

SECTION 1. The superintendents of institutions under the supervision of the commission on mental diseases are hereby authorized to deposit in any bank or trust company within the commonwealth funds belonging to patients, and funds deposited by relatives or friends of patients to be used for the benefit of such patients, in an account entitled "Patients' Funds". Interest earned on said funds shall, within thirty days after having been credited to said account, be paid into the treasury of the commonwealth and credited to general revenue.

SECTION 2. This act shall take effect upon its passage. [Approved April 26, 1918.]

GENERAL ACTS, CHAPTER 224.

AN ACT TO AUTHORIZE THE COMMISSION ON MENTAL DISEASES TO PROVIDE A WATER SUPPLY FOR THE PROPOSED BELCHERTOWN STATE SCHOOL.

*Be it enacted, etc., as follows :*

SECTION 1. The commission on mental diseases, for the purpose of supplying the proposed Belchertown state school with pure water for domestic and other purposes, may take or acquire by purchase or otherwise and hold, the waters of any pond or stream, or so much thereof as may be necessary for the purposes of this act, or of any ground sources of supply, by means of driven, artesian or other wells, within the limits of the town of Belchertown, and the water rights connected with any such water sources, and may also take or acquire by purchase or otherwise and hold, all lands, rights of way and easements necessary for collecting, storing, holding, purifying and preserving the purity of the water and for conveying the same to any part of the lands owned by the commonwealth: *provided, however,* that no source of water supply and no lands necessary for preserving the quality of the water shall be taken or used without first obtaining the advice and approval of the state department of health, and that the situation of all dams, reservoirs and wells to be used as sources of water supply under this act shall be subject to the approval of the said department; and *provided, further,* that if the source of supply selected shall be situated within the limits of any source of supply which has been acquired by the city of Springfield, acting under its statutory rights, the commonwealth shall pay to the city of Springfield for the water diverted such sum as shall be agreed upon by the commission on mental diseases and the

board of water commissioners of the said city, and in case of failure to agree upon the sum to be paid, the same shall be determined by a board of arbitration consisting of three members, one of whom shall be chosen by the commission on mental diseases, another by the board of water commissioners of the city of Springfield, and a third by the two so chosen, and the decision of the said board shall be final and binding upon the commonwealth and the city.

SECTION 2. Said commission may construct on lands acquired under the provisions of this act proper dams, reservoirs, standpipes, tanks, buildings, fixtures and other structures, and may make excavations, procure and operate machinery and provide such other means and appliances, and do such other things as may be necessary for the establishment and maintenance of complete and effective water works; and for that purpose may construct wells and reservoirs and establish pumping works, and may construct, lay and maintain aqueducts, conduits, pipes and other works under or over any lands, water courses, railroads, railways, and public or other ways, and along such ways in the town of Belchertown in such manner as not unnecessarily to obstruct the same; and for the purpose of constructing, laying, maintaining, operating and repairing such conduits, pipes and other works, and for all other proper purposes of this act, said commission may dig up or raise and embank lands, highways or other ways, in such manner as to cause the least hindrance to public travel on such ways, and all things done upon any such way shall be subject to the direction of the selectmen of the town of Belchertown. Said commission shall not enter upon, construct or lay any conduits, pipes or other works within the location of any railroad corporation, except at such time and in such manner as it may agree upon with such corporation, or in case of failure so to agree, as may be approved by the public service commission.

SECTION 3. Said commission shall, within ninety days after the taking of any lands, rights of way, water rights, water sources or easements, under the provisions of this act, file and cause to be recorded in the registry of deeds for the county of Hampshire a description thereof sufficiently specific for identification, with a statement of the purposes for which the same were taken duly signed by the commission.

SECTION 4. The commonwealth shall pay all damages sustained by any person or corporation by the taking of any land, right of way, water, water source, water right or easement, or by any other thing done by said commission under the authority of this act. Any person or corporation sustaining damages as aforesaid and failing to agree with the commission as to the amount thereof may have the same assessed and determined in the manner provided by law in the case of land taken for laying out highways, on application at any time within the period of two years from the taking of such land or other property or the doing of other injury under the authority of this act; but no such application shall be made after the expiration of the said two years, and no assessment for damages shall be made for the taking of any water, water right, or any injury thereto, and the

said period of two years shall not begin to run, until water is actually withdrawn or diverted by said commission under the authority of this act.

SECTION 5. Whoever wilfully or wantonly corrupts, pollutes or diverts any water obtained or supplied under this act, or wilfully or wantonly injures any reservoir, standpipe, aqueduct, pipe or other property owned or used by the commonwealth for the purposes of this act shall forfeit and pay to the commonwealth three times the amount of damages assessed therefor to be recovered in an action of tort; and upon conviction of any of the above acts shall be punished by a fine not exceeding one hundred dollars or by imprisonment in jail for a term not exceeding six months.

SECTION 6. For the purpose of carrying out the provisions of this act, the commission on mental diseases is authorized to expend a sum not exceeding fifty thousand dollars, to be paid out of the treasury of the commonwealth from the ordinary revenue.

SECTION 7. This act shall take effect upon its passage, but shall become void unless the commission on mental diseases shall select a source of water supply and begin the construction of the water works herein authorized within two years after the date of its passage. [Approved May 24, 1918.

#### GENERAL ACTS, CHAPTER 228.

#### AN ACT TO PROVIDE FOR CLASSIFICATION OF CERTAIN POSITIONS IN THE COMMONWEALTH, AND TO REGULATE PROMOTION THEREIN.

*Be it enacted, etc., as follows :*

SECTION 1. All appointive offices and positions in the government of the commonwealth, except those in the judicial and legislative branches, shall be classified by the supervisor of administration, subject to the approval of the governor and council, in services, groups and grades according to the duties pertaining to each office or position. Such classification shall be established by specifications defining for each grade the titles, duties and responsibilities, and minimum qualifications for entrance and promotion. The titles so designated shall be the official title of positions included therein, and shall be set forth on all pay rolls. The term "group" as used in this act and in said classification shall be construed to include positions in a separate profession, vocation, occupation or trade involving a distinctive line of work which requires special education, training or experience. The term "grade" shall be construed to mean a subdivision of a group, and to include all positions with substantially identical authority, duties and responsibility as distinct from all other grades in that group. The term "advancement" shall be construed to mean an increase from one salary rate to another salary rate within a grade. The term "promotion" shall be construed to mean a change from the duties of one grade to the duties of a higher grade, and shall involve a change in salary to the rates of the higher grade.

SECTION 2. The supervisor of administration shall have authority to make rules and regulations, subject to the approval of the governor and

council, providing for the application and administration of the classification and the specifications established under the provisions of this act.

SECTION 3. No salary attached to an office or position classified in accordance with the provisions of this act shall be increased by a department head unless an appropriation sufficient to cover such increase has been granted by the general court in pursuance of a specific recommendation in the estimates filed as required by law. No increase in salary granted in accordance with chapter two of the General Acts of nineteen hundred and sixteen shall take effect prior to June first of the year when it is approved as therein provided.

SECTION 4. Incumbents of positions classified in accordance with the provisions of this act shall perform, so far as is practicable, the duties prescribed for the respective grades, but nothing in this act shall be construed to limit or restrict administrative authorities in exercising supervision of, or control over, or in assigning related, incidental or emergency duties to, their employees.

SECTION 5. For the purposes of the classification authorized by this act the words laborers, workmen and mechanics shall have the same meaning as in chapter four hundred and ninety-four of the acts of nineteen hundred and eleven, and the amendments thereof, and nothing contained herein shall be construed as placing employees of the commonwealth outside the civil service laws, rules and regulations, nor shall the classification aforesaid take precedence over any rulings of the board of boiler rules, of the boiler inspection department of the district police, or of the state examiners of electricians at present in force, regarding the construction, care and operation of boilers, engines and other apparatus which may be under the charge of such laborers, workmen and mechanics.

SECTION 6. This act shall not effect a reduction in any salary rate, including the increase allowed under chapter three hundred and twenty-three of the General Acts of nineteen hundred and seventeen, paid as of the first day of January in the year nineteen hundred and eighteen, and any present employee mentioned in chapter five hundred and fifty-four of the acts of nineteen hundred and fourteen, who was in the service under said chapter prior to July first, nineteen hundred and seventeen, and who did not receive the benefits provided by said chapter three hundred and twenty-three, shall be entitled to the said benefits, and such salary rate shall obtain until advancement or promotion is warranted by the terms of the classification and by law. Any employee of the commonwealth objecting to any provision of the classification affecting his position may appeal in writing to the supervisor of administration, and shall be entitled to a hearing upon such appeal. The supervisor shall report with such recommendations as he may deem expedient to the governor and council.

SECTION 7. This act shall not be construed as affecting the application or operation of sections twenty and twenty-one of chapter five hundred and fourteen of the acts of nineteen hundred and nine, of chapter four hundred and ninety-four of the acts of nineteen hundred and eleven, of chapter

five hundred and twenty-eight of the acts of nineteen hundred and twelve, of chapters six hundred and six hundred and eighty-eight of the acts of nineteen hundred and fourteen, of chapters two hundred and fifty-nine and two hundred and eighty-eight of the General Acts of nineteen hundred and fifteen, or of acts in amendment thereof. [Approved May 27, 1918.]

GENERAL ACTS, CHAPTER 230.

AN ACT TO PROVIDE FOR THE TRAINING AND INSTRUCTION OF DISABLED SOLDIERS AND SAILORS BY THE COMMONWEALTH AND THE FEDERAL GOVERNMENT.

*Be it enacted, etc., as follows :*

SECTION 1. For the purpose of fitting for employment in the industries of the commonwealth, and of making self-supporting and independent of charitable aid soldiers and sailors who have been or may become disabled or diseased in the present war service of the United States or of its allies, and who are residents of the commonwealth at the time of their discharge, or within one year thereafter, and continue to be residents while receiving the benefits of this act, the board of education is hereby directed to establish a division for their training and instruction.

SECTION 2. Said division shall consist of a qualified executive head, appointed by the board of education, and an advisory board. The advisory board shall consist of the commissioner of education, who shall be chairman, the surgeon general, the commissioner of health, the director of the bureau of statistics, the director of mental diseases, the chairman of the industrial accident board, and the supervisor of administration, *ex officiis*, and nine other persons who shall be appointed by the governor, with the advice and consent of the council, and shall serve without compensation. The director of the bureau of statistics shall be the executive secretary of the board.

SECTION 3. The governor, with the advice and consent of the council, is hereby authorized to transfer, either wholly or in part, to the board of education, for the use of said division, the use and custody of any state hospital, school or workshop, including its equipment and employees, or any other suitable resources of the commonwealth, for a period not exceeding the duration of the present war and two years after its termination as defined by federal authority.

SECTION 4. The board of education, acting through said division, is hereby empowered to make reasonable agreements for the use of available facilities for the purposes of this act, to provide such facilities where they are needed and to employ qualified persons to teach or supervise the soldiers and sailors seeking re-education or training under the provisions of this act.

SECTION 5. The governor, with the advice and consent of the council, may lease to, or permit to be used by, the United States or any department, bureau or agency thereof, any state hospital, school, workshop and its premises and equipment, or any other suitable resources belonging to the commonwealth for the purpose of enabling the United States to carry on the re-education and rehabilitation in industry of any soldiers and sailors in

the service of the United States or of its allies, and may assign to the United States or its agents any agreement or contract entered into by the board of education or by said division for carrying out the purposes of this act, upon such terms and conditions as will fully protect the commonwealth against expense.

SECTION 6. To carry out the provisions of this act, there may be expended from the treasury of the commonwealth such amounts as shall annually be appropriated by the general court, but, during the present fiscal year, not more than ten thousand dollars.

SECTION 7. This act shall take effect upon its passage. [Approved May 28, 1918.

GENERAL ACTS, CHAPTER 239.

AN ACT TO REGULATE APPOINTMENTS OF TREASURERS AND STEWARDS OF STATE INSTITUTIONS.

*Be it enacted, etc., as follows :*

Appointments of treasurers and stewards in the institutional service of the commonwealth shall not hereafter be made from a civil service list established by examination. Whenever a vacancy occurs in the office of treasurer or steward at any institution the appointing authority shall certify to the civil service commission the name of a person believed to be competent by reason of training and experience to fill the vacancy, and shall furnish the commission with such information concerning the proposed appointee as the commission may require. The commission shall immediately make a careful inquiry into the qualifications of the proposed appointee under such rules as it may, with the approval of the governor and council, establish, and if it is satisfied that he is a competent person, with the requisite qualifications, it shall notify the appointing authority that the appointment is approved, and upon receipt of such notice the appointment shall take effect, subject to the provisions of law relating to the filing of bonds by the treasurers of institutions. If the commission does not, within thirty days after the appointee is certified to it, notify the appointing authority of its approval, the appointment shall be void. [Approved May 28, 1918.

GENERAL ACTS, CHAPTER 244.

AN ACT TO ESTABLISH A BUDGET SYSTEM FOR THE COMMONWEALTH.

*Be it enacted, etc., as follows :*

SECTION 1. Every officer or board having charge of any department, institution or undertaking which receives an annual appropriation of money from the treasury of the commonwealth, including annual appropriations to be met by assessments, shall annually, on or before the fifteenth day of October, submit to the supervisor of administration statements showing in detail the amounts appropriated for the current fiscal year, and estimates of the amounts required for ordinary maintenance for the ensuing fiscal year, with an explanation of any increased appropriations recommended, and with citations of the statutes relating thereto, together with such

other information, from time to time, as may be required by the supervisor of administration. The said estimates shall not include any estimate for any new or special purposes or objects not authorized by statute. The officer or board submitting the estimates shall file on the same date duplicate copies thereof with the auditor of the commonwealth.

SECTION 2. Officers, heads of departments, boards, commissions and trustees of institutions who, in their annual reports or otherwise, recommend or petition for the expenditure of money from the treasury of the commonwealth from any source of revenue, including expenditures to be met by assessments or the issue of notes or bonds, for any purpose or object not covered by the estimates required to be submitted under the provisions of section one of this act shall, on or before October fifteenth of each year, submit estimates thereof in detail to the supervisor of administration, together with such other information as he may require from time to time.

SECTION 3. The auditor of the commonwealth shall annually, on or before the twenty-sixth day of December, prepare and file with the clerk of the house of representatives and with the supervisor of administration statements of state accounts setting forth in comparative tabulations the estimates filed under the provisions of section one of this act and estimates of all claims and other expenditures authorized by the statutes, including interest, sinking fund and serial bond requirements, the appropriations for the preceding year and expenditures for all state purposes for the preceding three years. The auditor shall further prepare and file with the said clerk and supervisor, on or before the said twenty-sixth day of December, his estimates for the ordinary and other revenue of the commonwealth in comparative tabulations with the actual revenue for the preceding three years, together with a statement of the free or unencumbered cash balance and other resources available for appropriation.

SECTION 4. The supervisor of administration shall study and review all estimates and requests for appropriations and other authorizations for expenditures of state funds filed with him as provided in this act, and shall make such investigations as may be necessary to enable him to prepare a budget for the governor, setting forth such recommendations as the governor shall determine upon. The governor may call upon the department of the auditor for information relative to the finances of the commonwealth and for assistance in the preparation of the budget. For this purpose the auditor may appoint a deputy in his department at an annual salary not to exceed thirty-five hundred dollars. The budget shall be submitted by the governor to the general court not later than the second Wednesday in January of each year, and it shall embody all estimates, requests and recommendations for appropriations or other authorizations for expenditures from the treasury of the commonwealth. The budget shall be classified and designated so as to show separately estimates and recommendations for: (a) expenses of administration, operation and maintenance; (b) deficiencies or overdrafts in appropriations of former years; (c) new construction, additions, improvements and other capital outlay; (d)

interest on the public debt and sinking fund and serial bond requirements; and (e) all requests and proposals, for expenditures for new projects and other undertakings; and shall include in detail definite recommendations of the governor relative to the amounts which should be appropriated therefor. The budget shall also include definite recommendations of the governor as to the financing of the expenditures recommended and the relative amounts to be raised from ordinary revenue, direct taxes or loans. All appropriations based upon the budget to be paid from taxes or revenue shall be incorporated in a single bill to be designated the general appropriation bill. With the budget the governor shall submit to the general court such messages, statements or supplemental data with reference to the budget as he may deem expedient, and from time to time during the session of the general court he may submit supplemental messages on recommendations relative to appropriations, revenues and loans.

SECTION 5. Sections three and four of chapter seven hundred and nineteen of the acts of nineteen hundred and twelve, as amended by chapter two hundred and seventy-eight of the General Acts of nineteen hundred and seventeen, and all other acts and parts of acts inconsistent herewith, are hereby repealed.

SECTION 6. This act shall take effect on the first day of July in the year nineteen hundred and eighteen. [Approved May 28, 1918.]

GENERAL ACTS, CHAPTER 257.

[Sections relating to this department.]

COMMISSION ON MENTAL DISEASES AND INSTITUTIONS FOR THE INSANE,  
ETC. [REVISED LAWS, CHAPTER 87.]

SECTION 308. Section three of chapter seven hundred and sixty-two of the acts of nineteen hundred and fourteen is hereby amended by striking out all after the word "rules" in the seventh line and substituting the following: — The commission on mental diseases shall make an annual report to the general court on or before the third Wednesday in January for the year ending the thirtieth day of November preceding. The report shall contain:

(a) An accurate account of the receipts and expenditures for each separate institution, an inventory of the property thereof on said thirtieth day of November, and a statement of the market value of any products of any institution, and of the labor, if any, performed by the inmates.

(b) A classified and tabulated statement of the estimates of the commission for the year ensuing, including the estimates for ordinary expenses and for any extraordinary expenses, and for the taking or purchase of any land, the construction, extension and repair of any buildings, and the improvement of any grounds.

(c) A concise review of the work of the commission for the year preceding, with such suggestions, recommendations and information relative to the said institutions and to the care of the persons therein as the commission shall deem expedient.

It may also contain information embodying the experience of this country and other countries relative to the best and most successful methods of caring for such persons as come under the supervision of the commission.

SECTION 309. Chapter five hundred and four of the acts of nineteen hundred and nine is hereby amended by striking out section twenty-nine, as amended by chapter four hundred and seventy-three of the acts of nineteen hundred and fourteen, and substituting the following:—*Section 29.* A justice of the superior court, either of the judges of probate for the county of Suffolk, the judge of probate for the county of Nantucket, or a justice or special justice of a police, district or municipal court, except the municipal court of the city of Boston, within his county, may commit to any hospital or receptacle for the insane, public or private, designated under the provisions of section twenty-eight, any insane person then residing or being in said county, who in his opinion is a proper subject for its treatment or custody; but such special justice may make such commitment only in case of the incapacity of the justice, his absence from the district, interest, or relationship to the applicant or to the person to be committed, or when specially authorized by the justice to act in the case, or when the justice is absent from the court building and the special justice is holding court in his place.

SECTION 310. Whenever a patient is received into any public or private institution or receptacle included in section three of chapter two hundred and eighty-five of the general acts of nineteen hundred and sixteen, as affected by chapter one hundred and twenty-one of the general acts of nineteen hundred and eighteen, the superintendent or manager thereof shall give immediate notice of such reception to the commission on mental diseases, stating all particulars of the case, except where such information is contained in copies required to be sent to the commission by section thirty-two of chapter five hundred and four of the acts of nineteen hundred and nine, as amended by chapter sixty-seven of the general acts of nineteen hundred and sixteen.

SECTION 311. Section forty-six of chapter five hundred and four of the acts of nineteen hundred and nine is hereby repealed.

#### GENERAL ACTS, CHAPTER 290.

#### AN ACT RELATIVE TO THE CONSTRUCTION AND IMPROVEMENT OF BUILDINGS AT STATE INSTITUTIONS.

*Be it enacted, etc., as follows :*

SECTION 1. Estimates for building construction and institutional development filed in accordance with the provisions of section two of chapter two hundred and forty-four of the General Acts of the year nineteen hundred and eighteen, shall be accompanied by preliminary studies and general specifications sufficient for a careful estimate by a competent contractor, and at least one such estimate of the cost of any new construction, including

heating, plumbing, lighting, ventilation and equipment, for alteration or repair of existing construction when such estimate exceeds five thousand dollars.

SECTION 2. Any board, department or commission having in charge a building operation, as described in section one of this act, shall procure preliminary studies and reliable estimates of the cost of the proposed work and shall file copies of such preliminary studies and estimates in the office of such board, department or commission, and in the office of the supervisor of administration on or before the fifteenth day of October of the year preceding reference to the General Court with request for an appropriation.

SECTION 3. Preliminary studies as submitted with estimates shall not be changed or amended thereafter in any respect, except with the written approval of such board, department or commission, and such changes shall be kept on file distinct from the original studies authorized. The board, department or commission, or the trustees or officers in direct charge of such building operation, shall, after the submission of preliminary studies and estimates, when so authorized by the general court, obtain working plans and specifications; shall advertise in a reasonable number of newspapers for proposals for the performance of such work, and shall award the contract to the lowest responsible and eligible bidder; but no contract shall be awarded for a sum in excess of the appropriation available therefor.

SECTION 4. To meet the expenses incurred under the provisions of sections one and two of this act, in cases where the general court fails to make an appropriation to carry out the construction or development asked for, reasonable amounts in compensation for such preliminary studies, specifications and estimates not exceeding one per cent of the estimated cost of construction may be expended, subject to the amount annually appropriated therefor.

SECTION 5. All acts or parts of acts inconsistent herewith, including chapter five hundred and twenty of the acts of nineteen hundred and seven and acts in amendment thereof, are hereby repealed.

SECTION 6. This act shall take effect upon its passage. [Approved June 1, 1918.

## SPECIAL APPROPRIATIONS.

The special appropriations for the year 1918 and for two ten-year and one twenty-year period are shown in the following tables:—

*Detailed Statement.*

	1918.	Ten Years, ending 1918.	Ten Years, ending 1908.	Twenty Years, ending 1918.
Worcester Hospital:—				
Renovation of plumbing in eight wards,	\$5,500 00	\$190,660 00	\$299,098 44	\$489,758 44
Taunton Hospital:—				
Construction of spur track and trestle,	\$21,735 00			
Construction of horse barn at Raynham Colony,	4,250 00			
	\$25,985 00	\$172,285 00	\$325,205 00	\$497,485 00
Danvers Hospital:—				
Constructing coal trestle,	\$10,000 00			
Constructing two verandas to accommodate 90 patients each,	18,500 00			
Alterations at Middleton Colony to provide accommodations for 50 additional patients,	8,000 00			
	\$36,500 00	\$152,150 00	\$364,100 00	\$516,250 00
Northampton Hospital:—				
Constructing and furnishing two nurses' homes, to accommodate 63 each, one for women and one for male attendants and married couples,	\$108,000 00			
Purchase of house, barn and 4½ acres of land,	5,000 00			
	\$113,000 00	\$196,185 00	\$217,300 00	\$413,485 00
Westborough Hospital:—				
Renovation of Wards 2 and 5,	\$25,000 00			
New standpipe and changes in the water system,	36,500 00			
	\$61,500 00	\$323,250 00	\$454,625 00	\$777,875 00
Boston Hospital:—				
Constructing window bars,	\$1,500 00			
Constructing and furnishing male infirmary for 324 patients and 30 nurses,	385,000 00			
Purchase of one boiler and blower,	11,000 00			
	\$397,500 00	\$2,080,813 57 <sup>1</sup>	—	\$2,080,813 57 <sup>1</sup>
For land taken by eminent domain for Boston Hospital, . . . . .	—	\$400,000 00	—	\$400,000 00
Grafton Hospital:—				
Construction of coal trestle and track scales,	\$10,000 00			
Purchase of one boiler, blowers and grates,	8,000 00			
Fire protection,	7,000 00			
Hydrotherapeutic equipment,	6,000 00			
	\$31,000 00	\$1,182,278 00	\$517,900 00	\$1,700,178 00

<sup>1</sup> In addition the State purchased the Boston Insane Hospital in 1908, as appears later in this table.

*Detailed Statement — Concluded.*

	1918.	Ten Years, ending 1918.	Ten Years, ending 1908.	Twenty Years, ending 1918.
Medfield Hospital:— Installation of high-pressure steam main,	\$12,000 00	\$133,977 00	\$558,700 00	\$692,677 00
Gardner Colony:— Changes in heating plant, . . . . .	\$5,500 00	\$131,050 00	\$495,950 00	\$627,000 00
Monson Hospital, . . . . .	—	\$309,745 00	\$431,800 00	\$741,545 00
Foxborough Hospital:— Constructing and furnishing an acute male receiving ward for 75 patients, .	\$105,000 00			
Purchase of farm land, . . . . .	10,500 00			
Purchase of Hearn property, . . . . .	2,850 00			
	\$118,350 00	\$466,050 00	\$173,150 00	\$639,200 00
Massachusetts School for the Feeble-minded:— Construction of concrete hay barn at Templeton Colony, . . . . .	\$3,500 00			
Construction of canning and preserving plant at Templeton Colony, . . . . .	1,000 00			
Construction of side-track to replace present coal trestle, . . . . .	25,000 00			
	\$29,500 00	\$121,700 00	\$537,100 00	\$658,800 00
Wrentham State School:— Construction of brick chimney for heating plant, . . . . .	\$5,500 00			
Purchase of land, . . . . .	2,200 00			
	\$7,700 00	\$814,560 00	\$247,800 00	\$1,062,360 00
Proposed School at Belchertown:— Providing a water supply, . . . . .	\$50,000 00	\$250,000 00	—	\$250,000 00
Hospital for Insane in the Metropolitan District, . . . . .	—	\$115,000 00	—	\$115,000 00
State Infirmary (mental wards), . . . . .	—	—	\$120,000 00	\$120,000 00
Bridgewater Hospital, . . . . .	—	\$90,000 00	\$235,000 00	\$325,000 00
Purchase of Boston Insane Hospital (see Boston State Hospital), . . . . .	—	\$1,000,000 00	—	\$1,000,000 00

*Summary of Special Appropriations.*

Insane:— Constructing, furnishing and equipping buildings for patients and nurses, .	\$624,500 00	\$2,962,467 31	\$2,207,525 00	\$5,169,992 31
Number of patients provided for, .	629	3,288	2,992	6,270
Average per capita cost, .	\$733 70	\$727 60	\$596 27	\$666 09
Number of nurses provided for, .	156	687	651	1,338
Average per capita cost, .	\$1,044 87	\$829 85	\$650 49	\$742 59
Patients and nurses provided for, .	785	3,975	3,643	7,608
Average per capita cost, .	\$795 54	\$745 27	\$605 96	\$679 54
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	\$182,335 00	\$2,824,603 76	\$1,733,886 44	\$4,558,490 20
Totals, . . . . .	\$806,835 00	\$5,787,071 07	\$3,941,411 44	\$9,728,482 51

*Summary of Special Appropriations — Concluded.*

	1918.	Ten Years, ending 1918.	Ten Years, ending 1908.	Twenty Years, ending 1918.
Feeble-minded: —				
Constructing, furnishing and equipping buildings for patients and nurses, .	-	\$730,000 00	\$425,500 00	\$1,155,500 00
Number of patients provided for, .	-	1,328	840	2,173
Average per capita cost, .	-	\$485 31	\$435 12	\$464 79
Number of nurses provided for, .	-	131	82	213
Average per capita cost, .	-	\$652 67	\$731 70	\$683 09
Patients and nurses provided for, .	-	1,459	922	2,386
Average per capita cost, .	-	\$500 34	\$461 50	\$484 28
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, .	\$87,200 00	\$456,260 00	\$359,400 00	\$815,760 00
Totals, . . . . .	\$87,200 00	\$1,186,260 00	\$784,900 00	\$1,971,160 00
Epileptic (sane): —				
Constructing, furnishing and equipping buildings for patients and nurses, .	-	\$87,000 00	\$152,550 00	\$239,550 00
Number of patients provided for, .	-	150	192	342
Average per capita cost, .	-	\$560 00	\$732 03	\$656 57
Number of nurses provided for, .	-	4	27	31
Average per capita cost, .	-	\$750 00	\$444 44	\$483 87
Patients and nurses provided for, .	-	154	219	373
Average per capita cost, .	-	\$564 73	\$696 57	\$642 22
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, .	-	\$64,372 50	\$63,350 00	\$127,722 50
Totals, . . . . .	-	\$151,372 50	\$215,900 00	\$367,272 50
Inebriate: —				
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, .	-	\$5,000 00	\$35,517 00	\$40,517 00
All classes: —				
Constructing, furnishing and equipping buildings for patients and nurses, .	\$624,500 00	\$3,779,467 31	\$2,785,575 00	\$6,565,042 31
Number of patients provided for, .	629	4,766	4,024	8,785
Average per capita cost, .	\$733 70	\$654 81	\$596 11	\$615 93
Number of nurses provided for, .	156	822	760	1,582
Average per capita cost, .	\$1,044 87	\$801 23	\$651 94	\$729 51
Patients and nurses provided for, .	785	5,588	4,784	10,367
Average per capita cost, .	\$795 54	\$676 35	\$583 27	\$633 26
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, .	\$269,535 00	\$3,350,236 26	\$2,192,153 44	\$5,542,489 70
Totals, . . . . .	\$895,035 00	\$7,129,703 57	\$4,977,728 44	\$12,107,432 01
Average amount appropriated annually, .	-	\$712,970 35	-	\$605,371 60
Purchase of the Boston Insane Hospital, .	-	\$1,000,000 00	-	\$1,000,000 00
Totals, . . . . .	\$895,035 00	\$8,129,703 57	\$4,977,728 44	\$13,107,432 01

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**FINANCIAL STATISTICS.**

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TABLE 1.—*Balance Sheet, 1918.*

Inventory, Nov. 30, 1917, Unexpended balance of special appropriations, . . .	\$18,875,269 14	Inventory, Nov. 30, 1918, Unexpended balance of special appropriations . . .	\$20,183,064 58
	306,262 97		1,225,907 74
Accounts receivable, . . . . .	73,185 21	Unexpended balance of maintenance appropriations reverting to State treasury, . . . . .	137,852 79
Private funds, . . . . .	69,387 45	Accounts receivable, . . . . .	54,324 25
Total resources, . . . . .	\$19,824,104 77	Private funds, . . . . .	82,315 80
		Total resources, . . . . .	
Net increase in value of property, Maintenance appropriations granted, . . . . .	1,413,017 56	Net increase in value of property, Expenditures from maintenance appropriations, . . . . .	111,154 73
Special appropriations granted, . . . . .	5,979,426 96	Expenditures from special appropriations, . . . . .	5,791,574 17
	895,532 31	Unexpended balances of special appropriations reverting to State treasury, . . . . .	475,728 07
Resources from all sources except State Treasurer, . . . . .	477,175 84	Money received and remitted to State treasury, . . . . .	159 47
Aggregate, . . . . .	\$28,589,257 44	Aggregate, . . . . .	477,175 84
			\$28,589,257 44

TABLE 2.—*Financial Summary for the Year ending Nov. 30, 1918.*

INSTITUTIONS.	RESOURCES Nov. 30, 1918.					Total Resources.
	Inventory.	Unexpected Balance of Special Appropria- tions.	Unexpected Balance of Maintenance Appropriations reverting to State Treasury.	Accounts Receivable.	Private Funds.	
<i>The insane:—</i>						
Worcester Hospital,	\$2,136,402 46	\$15,353 94	\$10,717 39	\$4,629 32	\$16,419 08	\$2,183,522 19
Taunton Hospital,	967,359 45	25,985 00	19,915 18	5,194 33	5,379 39	1,018,454 46
Northampton Hospital,	1,216,099 50	99,496 38	4,988 81	5,089 14	—	1,331,953 22
Danvers Hospital,	2,631,125 63	34,869 62	6,487 91	10,089 19	3,944 23	2,682,572 35
Westborough Hospital,	1,341,282 02	65,392 21	25,083 68	4,579 28	—	1,440,272 02
Boston Hospital (including Psychopathic Department),	3,307,100 14	343,810 63	11,158 93	9,468 97	—	3,671,538 67
Grafton Hospital,	2,223,103 28	143,482 78	32,510 74	8,370 15	—	2,407,466 95
Medfield Hospital,	1,808,443 57	28,288 63	11,424 04	2,152 48	—	1,850,308 72
Foxborough Hospital,	625,477 52	209,031 26	91 57	620 25	—	835,220 60
Gardner Colony,	686,312 19	3,473 52	6,241 41	351 41	—	696,378 53
Totals, . . . . .	\$16,942,706 36	\$969,183 97	\$128,619 66	\$51,445 02	\$25,732 70	\$18,117,687 71
<i>Miscellaneous:—</i>						
Monson Hospital,	\$995,173 76	\$9 50	\$46,835 11	\$1,396 98	—	\$1,043,465 35
School for Feeble-minded at Waltham,	1,138,831 18	27,774 46	2,462 20	1,082 68	\$56,583 10	1,226,733 62
Wrentham School, . . . . .	1,086,192 23	32,745 95	9,885 82	399 57	—	1,129,223 62
Totals, . . . . .	\$3,220,197 22	\$60,529 91	\$59,233 13	\$2,879 23	\$56,583 10	\$3,399,422 59
Totals of above institutions, . . . . .	\$20,162,903 58	\$1,029,713 88	\$187,883 79	\$54,324 25	\$82,315 80	\$21,517,110 30
<i>Uncompleted projects:—</i>						
Metropolitan Hospital,	\$9,811 00	\$49 16	—	—	—	\$9,860 16
School for Feeble-minded at Belchertown, . . . . .	10,350 00	196,144 70	—	—	—	206,494 70
Totals, . . . . .	\$20,161 00	\$196,193 86	—	—	—	\$21,6354 86
Aggregates, . . . . .	\$20,183,064 58	\$1,225,907 74	\$187,882 79	\$54,324 25	\$82,315 80	\$21,733,465 16

TABLE 2.—*Financial Summary for the Year ending Nov. 30, 1918*—Continued.

INSTITUTIONS.	Net Resources during Year 1918.	EXPENDITURES.		Unexpended Balances of Special Appropriations reverting to State Treasury.	Money remitted to State Treasury from Receipts.	Aggregates.
		Maintenance Appropriations.	Special Appropriations.			
The insane:—						
Worcester Hospital,	\$110,610.52	\$487,520.03	\$6,666.83	—	\$71,656.45	\$2,859,976.02
Taunton Hospital,	—	451,869.38	15,536.45	—	43,712.97	1,514,036.81
Northampton Hospital,	—	306,491.33	8,251.30	—	60,440.50	1,714,421.50
Danvers Hospital,	—	554,828.61	13,583.15	—	71,539.15	3,317,101.41
Westborough Hospital,	—	488,733.25	151,053.39	—	94,763.91	2,032,302.31
Boston Hospital (including Psychopathic Department),	—	768,278.65	94,062.29	25.53	54,843.81	4,645,714.52
Grafton Hospital,	—	643,247.73	11,396.90	34.30	16,492.28	3,161,204.78
Medfield Hospital,	—	526,638.28	115,607.56	—	17,455.74	2,405,883.94
Foxborough Hospital,	152.57	213,245.56	8,910.46	8.47	5,800.66	1,169,844.40
Gardner Colony,	—	266,748.68	—	3,752.67	975,951.38	
Totals, . . . . .	\$110,763.09	\$4,702,371.50	\$425,078.33	\$68.30	\$440,458.14	\$23,796,627.07
Miscellaneous:—						
Monson Hospital,	\$391.64	\$291,738.89	\$2,913.54	—	\$21,350.18	\$1,356,946.06
School for Feeble-minded at Waltham,	—	446,133.53	39,888.74	\$31.41	11,260.46	1,690,072.56
Wrentham School,	—	345,130.25	—	59.76	4,107.06	1,521,409.43
Totals, . . . . .	\$391.64	\$1,089,002.67	\$42,802.28	\$91.17	\$36,717.70	\$4,568,428.05
Totals of above institutions,	\$111,154.73	\$5,791,574.17	\$467,880.61	\$159.47	\$477,175.84	\$28,365,055.12.
Uncompleted projects:—						
Metropolitan Hospital,	—	—	—	—	—	\$9,863.80
School for Feeble-minded at Belchertown,	—	—	—	—	—	214,338.52
Totals, . . . . .	\$111,154.73	\$5,791,574.17	\$475,728.07	\$159.47	\$477,175.84	\$224,202.32
Aggregates, . . . . .						\$28,589,257.44

^ Included in Wrentham.

TABLE 2.—*Financial Summary for the Year ending Nov. 30, 1918—Continued.*

INSTITUTIONS.	RESOURCES Nov. 30, 1917.					Total Resources.
	Inventory.	Unexpended Balance of Special Appropriations.	Accounts Receivable.	Private Funds.		
<i>The insane:—</i>						
Worcester Hospital,	\$2,244,392.56	\$16,520.77	\$14,796.71	\$8,872.11	\$2,284,582.15	
Taunton Hospital,	937,109.96	—	9,359.11	—	946,468.37	
Northampton Hospital,	1,092,732.85	1,805.13	10,137.56	688.14	1,105,363.68	
Danvers Hospital,	2,323,610.44	6,427.15	5,713.85	—	2,335,751.44	
Westborough Hospital,	1,039,359.72	17,474.46	15,466.59	3,934.23	1,076,235.00	
Boston Hospital (including Psychopathic Department),	3,087,366.31	97,364.02	9,148.13	—	3,194,378.46	
Grafton Hospital,	2,115,856.84	206,570.60	2,369.94	—	2,324,737.35	
Medfield Hospital,	1,752,545.07	27,719.83	1,684.72	—	1,701,949.62	
Foxborough Hospital,	414,810.79	206,252.54	588.67	—	621,672.00	
Gardner Colony,	636,593.42	6,892.75	222.75	—	633,708.62	
<i>Totals,</i>	\$15,694,897.26	\$587,026.95	\$69,428.03	\$13,494.48	\$16,364,846.72	
<i>Miscellaneous:—</i>						
Monson Hospital—	\$995,329.69	\$9.50	\$1,632.69	\$55,892.97	\$996,971.88	
School for Feeble-minded at Waltham,	1,120,549.82	1,219.41	1,769.47	—	1,179,431.92	
Wrentham School,	1,044,331.37	64,994.45	354.77	—	1,109,680.59	
<i>Totals,</i>	\$3,160,210.88	\$66,223.36	\$3,737.18	\$55,892.97	\$3,286,084.39	
<i>Totals of above institutions,</i>	\$18,855,108.14	\$653,250.31	\$73,185.21	\$69,387.45	\$19,650,931.11	
<i>Uncompleted projects:—</i>						
Metropolitan Hospital—	\$9,811.00	\$32.80	—	—	\$9,863.80	
School for Feeble-minded at Belchertown,	10,350.00	152,959.86	—	—	163,309.86	
<i>Totals,</i>	\$20,161.00	\$153,012.66	—	—	\$173,173.66	
<i>Aggregates,</i>	\$18,875,269.14	\$806,262.97	\$73,185.21	\$69,387.45	\$19,824,104.77	

TABLE 2.—*Financial Summary for the Year ending Nov. 30, 1918—Concluded.*

INSTITUTIONS.	Net Increase in Valuation.	APPROPRIATIONS.		Receipts from All Sources except State Treasurer. Aggregates.
		Maintenance.	Special.	
The insane:—				
Worcester Hospital,	\$26,085 91	\$498,237 42	\$5,500 00	\$71,666 45
Taunton Hospital,	123,909 48	471,784 56	50,985 00	43,712 97
Northampton Hospital,	311,890 33	311,480 14*	113,227 70	60,440 50
Davvers Hospital,	561,316 52	508,816 93	36,693 77	71,589 15
Westborough Hospital,	508,816 93	61,510 88	94,362 31	61,510 88
Boston Hospital (including Psychopathic Department),	219,554 67	779,437 58	397,500 00	54,843 81
Grafton Hospital,	113,306 65	675,758 47	31,000 00	16,492 28
Medfield Hospital,	56,366 26	538,062 32	12,000 00	17,455 74
Foxborough Hospital,	210,678 31	213,307 13	118,386 30	5,800 66
Gardner Colony,	—	272,990 00	5,500 00	3,752 67
Totals, .	\$1,352,827 40	\$4,831,191 16	\$807,303 65	\$440,458 14
Miscellaneous:—				\$23,796,627 07
Mosson Hospital,		\$338,624 00	\$29,500 00	\$21,350 18.
School for Feeble-minded at Waltham,		451,595 73	7,700 00	11,260 46
Wrentham School,		358,016 07		4,107 06
Totals, .	\$1,413,017 56	\$1,148,235 80	\$37,200 00	\$36,717 70
Totals of above institutions,		\$5,979,426 96	\$844,503 65	\$477,175 84
Uncompleted projects:—				
Metropolitan Hospital,		—	\$51,028 66	—
School for Feeble-minded at Belchertown,		—	\$51,028 66	—
Totals, .	\$1,413,017 56	\$5,979,426 96	\$895,532 31	\$477,175 84
Aggregates, .				\$28,589,257 44

<sup>1</sup> Included in Wrentham.

TABLE 3.—*Inventory of State Institutions, Nov. 30, 1918.*

INSTITUTIONS.	REAL ESTATE.						Totals.	
	LAND. 1		Buildings.		Farm, Stable and Grounds.	Miscella- neous.		
	TOTAL.	Acre.	Patients.	Nurses.				
<b>The insane:</b> —								
Worcester Hospital,	578	\$274,040 00	\$1,187,452 00	\$100,268 79	\$92,075 65	\$1,700 00	\$1,381,496 44	
Taunton Hospital,	333	40,500 00	409,124 00	69,040 00	54,490 00	611,694 00		
Northampton Hospital,	501	120,487 50	468,464 25	15,832 28	42,800 00	70,940 00		
Danvers Hospital,	517	80,452 50	1,715,700 00	61,709 02	33,500 00	106,063 53		
Westborough Hospital,	764	52,824 00	524,225 00	45,050 00	20,285 00	47,281 00	1,927,743 38	
Boston Hospital (including Psychopathic Department),	235	508,500 00	1,669,702 63	73,649 35	13,653 75	2,032,933 23		
Grafton Hospital,	919	155,036 00	993,202 00	106,585 00	14,800 00	286,200 00		
Medfield Hospital,	609	37,150 00	734,438 12	163,452 53	65,387 00	40,265 89	1,341,087 00	
Foxborough Hospital,	263	29,600 00	320,890 01	33,250 00	7,063 96	36,828 43	1,373,743 54	
Gardner Colony,	1,848	26,880 00	226,078 23	12,791 20	38,414 45	308,032 40		
Totals,	6,567	\$1,325,470 00	\$8,249,276 24	\$681,928 17	\$382,669 81	\$1,382,059 03	\$10,671,933 25	
<b>Miscellaneous:</b> —								
Monson Hospital,	661	\$14,165 00	\$407,156 25	\$35,658 75	\$27,903 75	\$70,593 75	\$540,502 50	
School for Feeble-minded at Waltham,	1,992	52,150 00	425,637 25	80,025 00	24,112 63	104,839 50	634,634 38	
Wrentham School,	515	14,020 00	484,700 00	69,650 00	20,940 00	97,762 00	673,052 00	
Totals,	3,168	\$80,335 00	\$1,317,513 50	\$185,333 75	\$72,146 38	\$273,195 25		
Totals, hospitals and miscellaneous,	9,735	\$1,405,805 00	\$9,566,789 74	\$867,261 92	\$454,816 19	\$1,631,254 28	\$1,848,188 88	
<b>Uncompleted projects:</b> —								
Metropolitan Hospital,	281	\$9,811 00	—	—	—	—	—	
School for Feeble-minded at Belchertown,	619	10,350 00	—	—	—	—	—	
Totals,	900	\$20,161 00	—	—	—	—	—	
Aggregates,	10,635	\$1,425,966 00	\$9,566,789 74	\$867,261 92	\$454,816 19	\$1,631,254 28	\$12,520,122 13	

<sup>1</sup> Owing to revaluation by Tax Commissioner, detail of figures for land is not available.

TABLE 3.—*Inventory of State Institutions, Nov. 30, 1918—Continued.*

INSTITUTIONS.	REAL ESTATE — Co.N.				Aggregates.
	BETTERMENTS.				
	Water Systems and Ap- partances.	Drainage System and Ap- partances.	Heating and Lighting System and Ap- partances.	Miscellaneous.	Totals.
<b>The insane:</b> —					
Worcester Hospital,	\$98,244 18	\$17,848 31	\$102,972 59	\$28,934 33	\$230,151 10
Taunton Hospital,	38,770 08	45,388 74	1,520 19	103,537 32	755,731 32
Northampton Hospital,	22,023 79	28,639 23	152,215 38	224,228 40	950,779 43
Danvers Hospital,	114,568 86	49,225 00	338,793 86	2,346,989 74	
Westborough Hospital,	95,077 25	72,259 83	197,760 67	887,425 67	
Boston Hospital (including Psychopathic Department),	26,457 48	—	3,966 11	435,470 69	
Grafton Hospital,	48,864 14	54,224 27	117,736 83	192,026 86	2,996,903 92
Medfield Hospital,	55,000 00	14,000 00	59,030 00	15,150 00	412,852 10
Foxborough Hospital,	7,618 14	9,143 24	78,705 15	—	1,908,975 10
Gardner Colony,	36,060 64	24,908 38	115,187 72	6,573 21	95,466 53
Totals,	\$516,227 08	\$167,931 68	\$794,930 09	\$885,081 77	\$2,364,170 62
Miscellaneous:—					\$14,361,573 87
Monson Hospital,	\$25,024 97	\$26,303 27	\$12,988 24	\$174,762 47	\$239,078 95
School for Feeble-minded at Waltham,	—	—	—	203,507 25	263,507 25
Wrentham School,	23,088 62	50,196 95	147,450 87	—	220,736 44
Totals,	\$48,113 59	\$76,500 22	\$160,439 11	\$378,269 72	\$663,322 64
Totals, hospitals and miscellaneous,	\$564,340 67	\$244,431 90	\$955,369 20	\$1,263,351 49	\$3,027,493 26
Uncompleted projects:—					
Metropolitan Hospital,	—	—	—	—	—
School for Feeble-minded at Belchertown,	—	—	—	—	—
Totals,	\$564,340 67	\$244,431 90	\$955,369 20	\$1,263,351 49	\$3,027,493 26
Aggregates,					\$16,975,581 39
					\$20,161 00

TABLE 3.—*Inventory of State Institutions, Nov. 30, 1918*—Continued.

TABLE 3.—*Inventory of State Institutions, Nov. 30, 1918*—Continued.

TABLE 3.—*Inventory of State Institutions, Nov. 30, 1918*—Continued.

TABLE 3.—*Inventory of State Institutions, Nov. 30, 1918—Concluded.*

INSTITUTIONS.	REAL AND PERSONAL PROPERTY—Con.					
	TOTAL REAL AND PERSONAL.		PRIVATE FUNDS.		TOTAL INVENTORY.	
	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.
<b>The insane:</b> —						
Worcester Hospital,	\$2,136,402 46	\$107,990 10 <sup>1</sup>	\$16,419 08	\$7,546 97	\$2,152,821 54	\$100,443 13 <sup>1</sup>
Taunton Hospital,	967,359 45	30,250 19	—	—	967,359 45	30,250 19
Northampton Hospital,	1,216,039 50	123,366 65	5,379 39	4,691 25	1,221,478 89	128,057 90
Danvers Hospital,	2,631,125 63	307,515 10	—	—	2,631,125 63	307,515 10
Westborough Hospital,	1,341,282 62	301,922 90	3,924 23	—	1,345,216 85	301,922 90
Boston Hospital (including Psychopathic Department),	3,307,100 14	219,233 88	—	—	3,307,100 14	219,233 88
Grafton Hospital,	2,223,103 28	107,246 44	—	—	2,223,103 28	107,246 44
Medfield Hospital,	1,808,443 57	55,898 50	—	—	1,808,443 57	55,898 50
Foxborough Hospital,	625,477 52	210,646 73	—	—	625,477 52	210,646 73
Gardner Colony,	686,312 19	281 23	—	—	686,312 19	281 23 <sup>1</sup>
Totals,	\$16,942,706 36	\$1,247,809 10	\$25,732 70	\$12,238 22	\$16,968,439 06	\$1,260,047 32
<b>Miscellaneous:</b> —						
Monson Hospital,	\$995,173 76	\$155 03 <sup>1</sup>	—	—	\$995,173 76	\$155 03 <sup>1</sup>
School for Feeble-minded at Waltham,	1,138,381 18	18,281 36	\$56,583 10	\$690 13	1,105,414 28	18,971 49
Wrentham School,	1,086,192 28	41,860 91	—	—	1,086,192 28	41,860 91
Totals,	\$3,220,197 22	\$59,986 34	\$56,583 10	\$690 13	\$3,276,780 32	\$60,676 47
Totals, hospitals and miscellaneous,	\$20,162,903 58	\$1,397,795 44	\$82,315 80	\$12,928 35	\$20,245,219 38	\$1,320,723 79

<sup>1</sup> Decrease.

TABLE 4.—*Receipts of State Institutions during the Fiscal Year ending Nov. 30, 1918.*

INSTITUTIONS.	RECEIPTS FOR SUPPORT.				RECEIPTS ON ACCOUNT OF SALES OR REFUNDS.			
	Private.	Reimburs-ing.	Cities and Towns.	Total Support.	Salaries, Wages and Labor.	Travel, Transportation and Office.	Food.	Clothing and Materials.
<b>The Insane:</b> —								
Worcester Hospital,	\$42,007.09	\$23,402.17	—	\$65,409.26	—	\$54.97	\$242.85	\$291.21
Taunton Hospital,	23,186.10	17,467.36	—	40,653.46	—	4.22	65.67	623.34
Northampton Hospital,	40,448.22	17,138.53	—	57,586.75	—	46.52	363.53	322.15
Davvers Hospital,	43,038.28	24,716.35	—	67,754.63	—	208.05	83.67	263.67
Westborough Hospital,	65,558.24	25,362.32	—	90,920.76	\$4.14	83.68	798.46	166.17
Boston Hospital (including Psychopathic Department),	22,371.50	26,910.25	—	49,281.75	—	—	1,399.74	167.71
Grafton Hospital,	2,592.58	9,714.85	—	12,307.43	—	95.97	137.87	407.77
Medfield Hospital,	2,299.30	12,714.10	—	15,013.40	—	10.05	335.63	284.56
Foxborough Hospital,	2,063.64	2,890.50	—	4,984.14	—	—	258.28	27.64
Gardner Colony,	102.00	1,993.61	—	2,095.61	—	2.65	424.63	287.45
Totals,	\$243,696.95	\$162,310.24	—	\$406,007.19	\$4.14	\$506.11	\$4,110.11	\$2,841.67
<b>Miscellaneous:</b> —								
Monson Hospital,	\$9,622.67	\$8,268.51	—	\$17,891.18	\$9.68	\$1.56	\$235.83	\$101.82
School for the Feeble-minded at Waltham,	5,134.26	3,497.10	—	8,631.36	—	265.66	\$32.73	447.14
Wrentham School,	917.72	499.81	—	1,417.53	—	—	30.05	182.80
Totals,	\$15,674.65	\$12,265.42	—	\$27,940.07	\$9.68	\$267.22	\$598.61	\$731.76
<b>Totals, hospitals and miscellaneous,</b>								
Mental Wards, State Infirmary,	\$259,371.60	\$174,575.66	—	\$433,947.26	\$13.82	\$773.33	\$4,708.72	\$3,573.43
Bridgewater Hospital,	—	\$2,295.35	—	\$2,295.35	—	—	\$2.66	\$417.51
Totals,	—	1,832.99	—	1,832.99	—	—	30.96	173.97
Aggregates,	\$259,371.60	\$178,704.00	—	\$433,075.60	\$13.82	\$773.33	\$4,742.34	\$4,164.91

TABLE 4.—*Receipts of State Institutions during the Fiscal Year ending Nov. 30, 1918—Concluded.*

TABLE 5.—*Expenses of Maintenance and Net Weekly Per Capitas for the Year ending Nov. 30, 1918.*

INSTITUTIONS.	SALARIES AND WAGES.				RELIGIOUS INSTRUCTION.			
	Average Number of Patients.	Gross Expenses.	Receipts.	Net Expenses.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1918.
<b>The insane:</b> —								
Worcester Hospital,	1,576	\$146,666.92	—	\$146,666.92	\$1,7897	\$1,010.00	—	\$0.0123
Taunton Hospital,	1,379	130,409.07	—	130,409.07	1,813.32	1,831.32	—	.0255
Northampton Hospital,	1,007	106,970.41	—	106,970.41	2,0438	1,242.10	—	.0237
Danvers Hospital,	1,538	167,723.36	—	167,723.36	2,1109	1,942.72	—	.0119
Westborough Hospital,	1,260	138,971.82	\$4 14	138,967.68	2,4282	1,702.84	—	.0260
Boston Hospital (including Psychopathic Department),	1,620	249,590.07	—	249,590.07	2,9638	1,498.00	—	.0178
Boston Hospital (excluding Psychopathic Department),	1,535	181,225.04	—	181,225.04	2,2719	1,398.00	—	.0175
Grafton Hospital,	1,888	175,738.76	—	175,738.76	1,7900	2,098.90	—	.0214
Medfield Hospital,	1,648	167,586.57	—	167,586.57	1,9536	1,482.00	—	.0173
Foxborough Hospital,	400	72,048.78	—	72,048.78	3,4639	1,280.00	—	.0166
Gardner Colony,	833	90,071.34	—	90,071.34	2,0794	1,116.25	—	.0258
Totals and averages,	13,139	\$1,465,779.10	\$4 14	\$1,465,774.96	\$2,1454	\$14,204.13	—	\$0.0208
<b>Miscellaneous:</b> —								
Monson Hospital,	1,002	\$115,994.57	\$9 68	\$115,984.89	\$2,2280	\$1,565.92	—	\$0.0300
School for Feeble-minded at Waltham,	1,566	144,445.57	—	144,445.57	1,7738	1,870.00	—	.0230
Wrentham School,	1,188	95,922.20	—	95,922.20	1,5538	1,222.38	—	.0198
Totals and averages,	3,756	\$336,362.34	\$9 68	\$336,352.66	\$1,8245	\$4,658.30	—	\$0.0239
Totals and averages, hospitals and miscellaneous,	16,895	\$1,822,141.44	\$13 82	\$1,822,127.62	\$2,0740	\$18,862.43	—	\$0.0215
Mental Wards, State Infirmary,	720	\$61,305.92	—	\$61,305.92	\$6375	\$656.09	—	\$0.0175
Bridgewater Hospital,	838	54,197.52	—	54,197.52	1,2291	920.24	—	.0209
Totals and averages,	1,568	\$115,503.44	—	\$115,503.44	\$1,4166	\$1,576.33	—	\$0.0193
Aggregates,	18,463	\$1,937,644.88	\$13 82	\$1,937,631.06	\$2,0182	\$20,438.76	—	\$0.0213

<sup>1</sup> Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.*—Continued.

INSTITUTIONS.	TRAVEL, TRANSPORTATION AND OFFICE EXPENSES.				Food.			
	Gross Expenses,	Receipts,	Net Expenses,	Net Weekly Per Capita, 1918.	Gross Expenses,	Receipts,	Net Expenses,	Net Weekly Per Capita, 1918.
<b>The insane:</b> —								
Worcester Hospital,	\$6,490 31	\$54 97	\$6,435 34	\$0 0785	\$110,870 46	\$242 85	\$110,627 61	\$1,349 9
Taunton Hospital,	10,091 54	4 22	10,037 32	.1407	106,322 32	65 67	106,256 65	1,481 8
Northampton Hospital,	5,597 22	46 52	5,550 70	.1060	68,251 82	363 53	67,888 29	1,296 5
Danvers Hospital,	17,388 32	208 05	17,180 45	.2162	108,287 45	83 45	108,204 07	1,361 9
Westborough Hospital,	10,310 02	83 68	10,226 34	.1561	102,682 69	798 46	101,884 23	1,555 1
Boston Hospital (including Psychopathic Department),	17,607 02	245 53	17,361 49	.2061	177,204 61	1,399 74	175,894 87	2,086 9
Boston Hospital (excluding Psychopathic Department),	14,092 91	245 53	13,847 38	.1736	150,429 36	1,262 29	149,167 07	1,870 0
Grafton Hospital,	11,921 76	95 97	11,825 79	.1206	158,325 82	137 87	158,187 95	1,611 3
Medfield Hospital,	10,286 66	10 05	10,226 61	.1199	124,192 72	335 63	123,837 09	1,445 3
Foxborough Hospital,	7,578 21	—	7,578 21	.3643	38,634 12	258 28	38,375 84	1,845 0
Gardner Colony,	6,309 10	2 65	6,306 45	.1456	52,722 38	424 63	52,297 76	1,207 3
Totals and averages,	\$103,580 16	\$751 64	\$102,828 52	\$0 1505	\$1,047,494 40	\$4,110 11	\$1,043,384 29	\$1,527 1
<b>Miscellaneous:</b> —								
Monsion Hospital,	\$5,050 84	\$1 56	\$5,040 28	\$0 0969	\$68,589 71	\$235 83	\$68,353 88	\$1,311 9
School for Feeble-minded at Waltham,	7,823 70	265 66	7,558 04	.0928	108,805 83	332 73	108,473 10	1,332 1
Wrentham School,	7,013 14	—	7,013 14	.1135	82,140 60	30 05	82,110 55	1,339 2
Totals and averages,	\$19,887 68	\$267 22	\$19,620 46	\$0 1004	\$239,536 14	\$598 61	\$258,987 53	\$1,325 8
Totals and averages, hospitals and miscellaneous,	\$123,467 84	\$1,018 86	\$122,448 98	\$0 1394	\$1,367,030 54	\$4,708 72	\$1,302,321 82	\$1,482 4
Mental Wards, State Infirmary,	\$4,695 28	—	\$4,695 28	\$0 1254	\$88,154 63	\$2 66	\$68,151 97	\$1,820 3
Bridgewater Hospital,	1,881 95	—	1,881 95	.0427	56,877 72	30 96	56,846 76	1,289 2
Totals and averages,	\$6,577 23	—	\$6,577 23	\$0 0807	\$125,032 35	\$33 62	\$124,998 73	\$1,553 0
Aggregates,	\$130,045 07	\$1,018 86	\$129,026 21	\$0 1344	\$1,432,062 89	\$4,742 34	\$1,427,320 55	\$1,486 7

1 Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.*—Continued.

INSTITUTIONS.	' FURNISHINGS AND HOUSEHOLD SUPPLIES.				
	CLOTHING AND CLOTHING MATERIALS.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1918.
<b>The insane:</b> —					
Worcester Hospital,	\$14,725.36	\$291.21	\$14,434.15	\$28,760.10	\$22.30
Taunton Hospital,	17,205.06	623.34	14,581.72	34,963.56	94.25
Northampton Hospital,	7,002.15	322.15	6,680.76	13,934.86	164.34
Danvers Hospital,	11,978.41	263.67	11,714.74	27,482.56	89.06
Westborough Hospital,	17,944.48	166.17	17,778.31	27,831.82	253.03
Boston Hospital (including Psychopathic Department),	19,446.30	167.71	19,278.59	22,888.30	144.14
Boston Hospital (excluding Psychopathic Department),	18,839.28	152.56	18,686.72	35,835.93	133.71
Grafton Hospital,	28,373.21	407.77	27,965.44	28,949.77	58.98
Medfield Hospital,	23,041.88	284.56	22,757.32	34,629.15	279.33
Foxborough Hospital,	6,975.43	27.64	6,917.79	13,893.15	13.893.15
Gardner Colony,	12,675.08	287.45	12,387.63	2,860.9	9,238.86
Totals and averages,	\$159,368.12	\$2,841.67	\$156,526.45	\$0.2291	\$268,631.90
Miscellaneous:—					
Monson Hospital,	\$8,887.07	\$101.82	\$8,585.25	\$0.1648	\$16,170.72
School for Feeble-minded at Waltham,	26,478.98	447.14	26,031.84	.3,197	24,623.01
Wrentham School, <sup>1</sup>	22,479.23	182.80	22,296.43	.3,609	17,377.54
Totals and averages,	\$57,445.28	\$731.76	\$56,913.52	\$0.2914	\$88,171.27
Totals and averages, hospitals and miscellaneous,	\$217,013.40	\$3,573.43	\$213,439.97	\$0.2429	\$326,803.17
Mental Wards, State Infirmary,	\$14,382.38	\$417.51	\$14,164.87	\$0.3753	\$12,571.58
Bridgewater Hospital,	10,816.21	173.97	10,642.24	.2,413	5,965.35
Totals and averages,	\$25,398.59	\$591.48	\$24,807.11	\$0.3042	\$18,536.93
Aggregates,	\$24,411.99	\$4,164.91	\$238,247.08	\$0.2482	\$345,340.10
					\$1,407.62
					\$343,932.48
					\$0.3582

<sup>1</sup> Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.*—Continued.

INSTITUTIONS.	MEDICAL AND GENERAL CARE.			HEAT, LIGHT AND POWER.			Net Weekly Per Capita, 1918.
	Gross Expenses.	Receipts.	Net Expenses.	Gross Expenses.	Receipts.	Net Expenses.	
The insane:—							
Worcester Hospital,	\$22,567.34	\$22,481.28	\$0.2743	\$104,096.23	—	\$104,096.23	\$1,2702
Taunton Hospital,	20,862.01	20,842.81	\$0.2907	70,059.48	76,059.48	1,0607	
Northampton Hospital,	9,811.57	—	\$1,874	48,295.49	46,116.09	.8807	
Danvers Hospital,	22,823.13	21,355	\$22,609.58	113,709.44	113,690.65	1,4308	
Westborough Hospital,	14,682.19	304.24	14,377.95	21,094	88,036.09	115.45	
Boston Hospital (including Psychopathic Department),	19,261.66	—	19,261.66	2287	203,089.99	15.25	1,3572
Boston Hospital (excluding Psychopathic Department),	19,261.66	5,850.74	13,410.92	.1681	175,083.15	15.25	2,4107
Grafton Hospital,	15,386.37	163.11	15,233.26	.1552	170,043.20	253.79	2,2323
Medfield Hospital,	13,272.61	17.68	13,254.93	.1547	86,099.29	169,789.41	1,7294
Foxborough Hospital,	9,032.69	—	9,032.69	.4343	35,574.07	26.00	1,0047
Gardner Colony,	10,253.82	3.40	10,250.42	.2366	28,796.66	51.56	1,7139
Totals and averages,	\$157,953.39	\$797.24	\$157,156.15	\$0.2300	\$953,977.27	\$738.17	\$933,239.10
Miscellaneous:—							
Monson Hospital,	\$6,593.85	\$286.57	\$6,307.28	\$0.1211	\$35,899.52	\$4.00	\$35,895.52
School for Feeble-minded at Waltham,	15,254.48	8.47	15,246.01	.1872	51,527.34	229.32	51,298.02
Wrentham School, <sup>1</sup>	7,092.78	—	7,092.78	.1148	60,292.89	6.16	60,286.73
Totals and averages,	\$28,941.11	\$295.04	\$28,646.07	\$0.1467	\$147,719.75	\$239.48	\$147,480.27
Totals and averages, hospitals and miscellaneous,	\$186,894.50	\$1,092.28	\$185,802.22	\$0.2115	\$1,101,697.02	\$977.65	\$1,100,719.37
Mental Wards, State Infirmary,	\$8,548.82	\$74.02	\$8,474.80	\$0.2264	\$36,483.51	—	\$36,483.51
Bridgewater Hospital,	8,210.39	—	8,210.39	.1862	41,785.36	28.99	41,756.37
Totals and averages,	\$16,759.21	\$74.02	\$16,685.19	\$0.2046	\$72,268.87	\$28.99	\$78,239.88
Aggregates,	\$203,653.71	\$1,166.30	\$202,487.41	\$0.2109	\$1,179,955.89	\$1,006.64	\$1,178,959.25

<sup>1</sup> Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.*—Continued.

INSTITUTIONS.	HEAT, LIGHT AND POWER—CON.				TOTAL CONSUMPTION.	
	STEAMING COAL.		COAL FOR DOMESTIC PURPOSES.		WEEKLY PER CAPTA.	Cost, 1918.
	Quantity, Long Tons.	Average Price.	BUCKWHEAT AND SCREWDINCS.	ANTHRACITE.		
Quantity, Long Tons.	Average Price.	Quantity, Long Tons.	Average Price.	Quantity, Long Tons.	Average Price.	Quantity, Long Tons.
The insane:—						
Worcester Hospital,	9,667	\$9.60	559	\$7.19	\$11.28	.0817
Taunton Hospital,	5,010	10.60	1,138	6.32	1,169	.0611
Northampton Hospital,	5,414	7.75	—	—	300	.0713
Danvers Hospital,	11,094	9.64	—	—	360	.0710
Westborough Hospital,	9,384	8.76	—	—	709	.0835
Boston Hospital (including Psychopathic Department),	16,011	10.77	3,049	6.78	690	.1041
Boston Hospital (excluding Psychopathic Department),	—	—	16,437	6.43	—	.0906
Grafton Hospital,	8,522	7.13	—	—	—	.08345
Medfield Hospital,	9,181	8.64	—	—	—	.0623
Foxborough Hospital,	3,671	8.85	—	—	248	.0762
Gardner Colony,	1,222	7.24	1,783	5.63	794	.0901
Totals and averages,	\$79,076	\$9.23	22,966	\$6.43	5,625	.0861
Miscellaneous:—						
Monson Hospital,	3,922	\$7.23	—	—	485	.0774
School for Feeble-minded at Waltham,	4,231	11.42	—	—	191	.0460
Wrentham School, <sup>1</sup>	5,962	9.74	—	—	200	.0585
Totals and averages,	14,115	\$9.55	—	—	876	.0582
Totals and averages, hospitals and miscellaneous,	93,191	\$9.28	22,966	\$6.43	6,501	.0799
Mental Wards, State Infirmary,	—	—	—	—	—	.05597
Bridgewater Hospital,	—	—	—	—	—	.06976
Totals and averages,	93,191	\$9.28	22,966	\$6.43	6,501	.0799
Aggregates,						

<sup>1</sup> Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.*—(Continued.)

INSTITUTIONS.	FARM AND STABLE.			GROUNDS.				
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1918.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1918.
The insane:—								
Worcester Hospital,	\$34,867.41	\$4,157.24	\$30,710.17	\$0.3747	\$491.11	—	\$491.11	\$0.0060
Taunton Hospital,	33,148.32	543.53	35,604.79	.4965	2,163.57	—	2,163.57	.0302
Northampton Hospital,	33,198.77	564.70	32,634.07	.6232	428.89	—	428.89	.0082
Danvers Hospital,	51,668.97	2,192.57	49,476.40	.6227	836.93	—	836.93	.0105
Westborough Hospital,	39,232.06	767.35	38,464.71	.5871	85.37	—	85.37	.0013
Boston Hospital (including Psychopathic Department),	11,368.86	1,439.57	9,929.29	.1179	892.64	—	892.64	.0106
Boston Hospital (excluding Psychopathic Department),	11,368.86	1,439.57	9,929.29	.1245	876.64	—	876.64	.0110
Grafton Hospital,	26,704.66	552.21	26,152.45	.2664	63.05	—	63.05	.0006
Medfield Hospital,	36,521.01	638.56	35,882.45	.4187	363.28	—	363.28	.0042
Foxborough Hospital,	18,040.37	176.85	17,863.52	.8588	1,200.52	—	1,200.52	.0577
Gardner Colony,	30,414.20	526.57	29,887.63	.6900	861.44	—	861.44	.0199
Totals and averages,	\$318,164.63	\$11,559.15	\$306,605.48	\$0.4488	\$7,386.80	—	\$7,386.80	\$0.0108
Miscellaneous:—								
Monson Hospital,	\$20,229.62	\$2,087.18	\$18,142.44	\$0.3482	\$79.90	—	\$79.90	\$0.0015
School for Feeble-minded at Waltham,	47,423.00	832.02	46,570.98	.5719	343.54	—	343.54	.0042
Wrentham School, <sup>1</sup> ,	41,181.22	1,581.27	39,599.95	.6410	374.37	—	374.37	.0061
Totals and averages,	\$108,833.84	\$4,530.47	\$104,313.37	\$0.5341	\$797.81	—	\$797.81	\$0.0041
Totals and averages, hospitals and miscellaneous,	\$426,998.47	\$16,079.62	\$410,918.85	\$0.4677	\$8,184.61	—	\$8,184.61	\$0.0093
Mental Wards, State Infirmary,	\$9,467.37	\$921.83	\$8,545.54	\$0.2282	\$66.28	—	\$66.28	\$0.0018
Bridgewater Hospital,	18,891.97	4,431.55	14,460.42	.3279	134.61	—	134.61	.0030
Totals and averages,	\$28,359.34	\$5,353.38	\$23,005.96	\$0.2822	\$200.89	—	\$200.89	\$0.0025
Aggregates,	\$455,357.81	\$21,433.00	\$433,924.81	\$0.4520	\$8,385.50	—	\$8,385.50	\$0.0087

<sup>1</sup> Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.*—Continued.

INSTITUTIONS.	REPAIRS, ORDINARY.				REPAIRS AND RENEWALS.			
	Gross Expenses,	Receipts,	Net Expenses,	Net Weekly Per Capita, 1918.	Gross Expenses,	Receipts,	Net Expenses,	Net Weekly Per Capita, 1918.
<b>The insane:</b> —								
Worcester Hospital,	\$14,779.03	\$210.42	\$14,568.61	\$0.1778	\$2,195.76	—	\$2,195.76	\$0.0268
Taunton Hospital,	7,701.78	550.02	\$7,151.76	.0997	8,111.35	—	8,111.35	.1131
Northampton Hospital,	13,232.29	543.45	12,688.84	.2423	525.00	—	525.00	.0100
Danvers Hospital,	25,749.73	210.30	25,530.45	.3213	6,235.57	—	6,235.57	.0785
Westborough Hospital,	14,012.18	615.07	13,397.11	.2045	7,241.69	—	7,241.69	.1105
Boston Hospital (including Psychopathic Department),	24,858.59	1,159.61	23,698.98	.2813	4,375.61	—	4,375.61	.0519
Boston Hospital (excluding Psychopathic Department),	23,515.15	1,157.61	22,357.54	.2803	3,475.61	—	3,475.61	.0436
Grafton Hospital,	14,526.91	393.77	14,133.14	.1440	1,309.95	—	1,309.95	.0133
Medfield Hospital,	18,138.66	81.73	18,056.93	.2108	10,947.12	—	10,947.12	.1278
Foxborough Hospital,	6,308.22	3.00	6,305.22	.3031	2,550.00	—	2,550.00	.1226
Gardner Colony,	14,189.12	58.93	14,130.19	.3262	9,043.02	—	9,043.02	.2088
Totals and averages,	\$153,496.53	\$3,835.30	\$149,661.23	\$0.2190	\$52,635.07	—	\$52,635.07	\$0.0769
<b>Miscellaneous:</b> —								
Monson Hospital,	\$10,461.54	\$52.06	\$10,409.48	\$0.1998	\$2,415.63	—	\$2,415.63	\$0.0464
School for Feeble-minded at Waltham,	20,538.08	60.80	20,477.28	.2515	—	—	—	—
Wrentham School, <sup>1</sup>	10,593.28	8.08	10,585.20	.1713	2,440.62	—	2,440.62	.0395
Totals and averages,	\$41,592.90	\$120.94	\$41,471.96	\$0.2123	\$4,856.25	—	\$4,856.25	\$0.0249
Totals and averages, hospitals and miscellaneous,	\$195,089.43	\$3,956.24	\$191,133.19	\$0.2176	\$57,391.32	—	\$57,391.32	\$0.0653
Mental Wards, State Infirmary,	\$12,007.37	\$450.50	\$11,556.87	\$0.3087	\$2,532.24	—	\$2,532.24	\$0.0676
Bridgewater Hospital,	5,340.54	354.09	4,986.45	.1131	857.44	—	857.44	.0194
Totals and averages,	\$17,347.91	\$804.59	\$16,543.32	\$0.2029	\$3,389.68	—	\$3,389.68	\$0.0416
Aggregates,	\$212,437.34	\$4,760.83	\$207,676.51	\$0.2163	\$60,781.00	—	\$60,781.00	\$0.0633

<sup>1</sup> Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.*—Continued.

INSTITUTIONS.	Gross Expenses.	TOTAL MAINTENANCE EXPENSES.			NET WEEKLY PER CAPITA.	Three Years' Average.
		1918.	GROSS WEEKLY PER CAPITA.	Receipts from Sales or Refunds.		
<b>The insane:</b> —						
Worcester Hospital,	\$487,520.08	\$5,9488	\$4,9814	\$5,065 06	\$482,454 98	\$5,8870
Taunton Hospital,	451,869.88	6,3015	5,1233	1,900 23	449,691 15	\$4,9633
Northampton Hospital,	306,491.33	5,8331	4,6016	2,184 09	304,307 24	5,1082
Danvers Hospital,	554,828.61	6,9828	5,0580	3,289 04	551,539 57	5,3114
Westborough Hospital,	483,733.25	7,3830	5,4962	3,107 59	480,625 66	5,4763
Boston Hospital (including Psychopathic Department),	768,278.65	9,1201	6,1857	4,571 55	763,707 10	6,1380
Boston Hospital (excluding Psychopathic Department),	632,550.85	7,9299	5,0733	4,406 52	628,144 33	7,8746
Grafton Hospital,	643,247.93	6,5520	4,8391	2,053 47	641,194 26	6,5311
Medfield Hospital,	526,638.28	6,1454	4,9337	1,724 77	524,913 41	6,1253
Foxborough Hospital,	213,215.56	10,2307	7,3986	491 77	212,733 79	10,2271
Gardner Colony,	266,748.68	6,1582	4,5562	1,412 59	265,356 09	7,3899
Totals and averages,	\$4,702,571.50	\$6,8829	\$5,1947	\$25,800 25	\$4,676,771 25	\$6,8451
Miscellaneous:—						*\$5,1669
Monson Hospital,	\$291,738.89	\$5,5992	\$5,0694	\$2,873 31	\$288,865 58	\$5,5440
School for Feeble-minded at Waltham,	449,133.53	5,5154	4,0821	2,201 59	446,931 94	\$5,4884
Wrentham School,	348,130.23	5,6354	4,1714	1,867 36	346,232 89	5,6051
Totals and averages,	\$1,089,002.67	\$5,5757	\$4,3776	\$6,942 26	\$1,082,060 41	\$5,5402
Totals and averages, hospitals and miscellaneous,	\$5,791,574.17	\$6,5809	\$5,0166	\$32,742 51	\$5,758,831 66	\$6,6550
Mental Wards, State Infirmary,	\$231,071.47	\$6,1718	—	\$1,867 89	\$229,203 58	\$6,1219
Bridgewater Hospital,	265,879.30	4,6089	—	5,103 92	200,775 38	4,5531
Totals and averages,	\$436,950.77	\$5,3590	—	\$6,971 81	\$429,978 96	\$5,2735
Aggregates,	\$6,228,524.94	\$6,4875	—	\$39,714 32	\$6,188,810 62	\$6,4462

<sup>1</sup> Includes Belchertown Colony.

TABLE 5.—*Expenses of Maintenance, etc.—Concluded.*

INSTITUTIONS.	Industries.	MAINTENANCE APPROPRIATION.					
		Total Gross Expenses, <sup>1</sup>	Amount appropriated by Legislature.	Amount transferred from \$350,000 Appropriation for Coal.	Balance from Previous Year.	Total Appropriation.	Deficiencies.
<b>The insane:</b>							
Worcester Hospital,	.	\$489,96	\$488,009 99	\$467,482 00	\$30,711 09	\$44,33	\$498,237 42
Taunton Hospital,	.	—	451,869 38	446,090 00	25,547 65	146 78	471,784 56
Northampton Hospital,	.	—	306,491 33	294,799 25	16,278 11	402 78	311,480 14
Danvers Hospital,	.	—	1,535 94	55	42 42	1,313 10	561,316 52
Westborough Hospital,	.	—	356 90	484,090 15	477,075 00	24,239 45	7,502 48
Boston Hospital (including Psychopathic Department),	257 61	768,536 26	694,637 00	84,610 30	—	190 28	508,816 93
Boston Hospital (excluding Psychopathic Department),	—	632,550 85	—	—	—	—	77,437 58
Grafton Hospital,	444 41	643,692 14	625,200 00	50,518 36	40 11	675,758 47	—
Gardner Hospital,	399 59	527,037 87	528,072 00	8,350 08	1,610 24	538,062 32	32,510 74
Foxborough Hospital,	.	213,215 56	205,583 00	7,724 13	—	213,307 13	11,424 04
Gardner Colony,	467 91	267,216 59	264,940 00	8,040 09	—	272,990 09	91 57
Totals and averages,	.	\$3,952 32	\$4,706,523 82	\$4,521,488 25	\$298,452 68	\$11,250 23	\$4,831,191 16
Miscellaneous:	.	\$25 45	\$291,764 34	\$338,624 00	—	—	—
Monson Hospital,	.	—	449,133 53	429,852 00 <sup>2</sup>	\$21,500 00	—	—
School for Feeble-minded at Waltham,	.	—	348,130 25	329,485 00	28,459 52	\$243 73	\$338,624 00
Wrentham School, <sup>4</sup>	.	—	—	—	71 55	451,395 73	—
Totals and averages,	.	\$25 45	\$1,089,028 12	\$1,097,961 00	\$49,959 52	\$315 28	\$1,148,235 80
Totals and averages, hospitals and miscellaneous, .	\$3,977 77	\$5,795,551 94	\$5,619,449 25	\$348,412 20	\$11,565 51	\$5,979,426 96	—
Mental Wards, State Infirmary,	.	\$231,071 47	\$236,212 38	—	—	\$236,212 38	—
Bridgewater Hospital,	.	33,580 47	209,459 77	218,832 77	\$13,803 58	234,001 78	—
Totals and averages,	.	\$3,580 47	\$440,531 24	\$455,045 15	\$13,803 58	\$470,214 16	—
Aggregates,	.	—	\$7,558 24	\$6,236,083 18	\$6,074,494 40	\$362,215 78	\$12,930 94
							\$6,449,641 12
							—
							\$221,116 28

<sup>1</sup> Inclusive of industries.<sup>2</sup> \$2.25 transferred from small items.<sup>3</sup> Includes \$1,627 sewage.<sup>4</sup> Includes Belchertown Colony.

TABLE 6.—Whole Weekly Per Capita Cost of Support of a Patient in the Institutions for the Insane, Feeble-minded and Epileptic for the Fiscal Year ending Nov. 30, 1918.

TABLE 7.—*Receipts and Expenses on Account of Institutions for the Insane, Feeble-minded and Epileptic, for the Fiscal Year ending Nov. 30, 1918.*

	EXPENSES.			Total Receipts.	Net Expenses.
	Increasing Value of Plant.	Which counterbalance Depreciation.	Maintenance, exclusive of Repairs and Improvements.		
State Board of Insanity:—					
Office, traveling and contingent expenses, salaries and printing					
annual report,					
Transportation and deportation of patients,					
Investigation of mental diseases and defects,					
Totals,					
The insane:—					
Worcester Hospital,	\$6,053.56	\$32,402.97	\$455,730.33	\$494,186.86	\$71,656.45
Taunton Hospital,	—	27,518.58	424,350.80	451,869.38	43,712.97
Northampton Hospital,	13,763.95	23,030.50	255,233.33	322,027.78	60,440.50
Danvers Hospital,	7,998.30	57,330.79	497,750.82	563,079.91	71,639.15
Westborough Hospital,	3,189.08	31,134.32	463,002.98	497,326.38	94,763.91
Boston Hospital (including Psychopathic Department),	141,058.17	51,839.35	726,414.52	919,332.04	54,833.91
Grafton Hospital,	93,830.29	37,569.22	605,910.51	737,310.02	16,492.28
Medfield Hospital,	11,396.90	42,759.71	433,868.57	538,035.18	17,455.74
Foxborough Hospital,	110,083.56	24,080.26	194,709.32	328,823.14	5,900.66
Gardner Colony,	8,910.46	32,347.48	234,401.20	275,639.14	3,522.67
Totals,	\$396,284.27	\$259,993.18	\$4,371,372.38	\$5,127,649.33	\$440,458.14
					\$4,687,191.69

Miscellaneous: —							
Mental Wards, State Infirmary,							
Bridgewater Hospital (insane),							
Monson Hospital (insane),							
Totals,							
\$396,284 27							
Totals, institutions for the insane,							
Family care,							
Totals for the insane,							
Feeble-minded: —							
School for Feeble-minded at Waltham,							
Wrentham School,							
School for Feeble-minded at Belchertown, <sup>1</sup>							
Totals for the feeble-minded,							
Epileptic: —							
Monson Hospital (sane),							
Hospital Cottages for Children,							
Totals for epileptics,							
Aggregates,							

<sup>1</sup> Included in Wrentham.

TABLE 8.—General Statement as to Special Appropriations, 1918.

INSTITUTIONS.	Balances brought forward from Previous Years.	New Appropriations, 1918.	Total of Live Appropriations.	EXPENDED DURING FISCAL YEAR ENDING NOV. 30, 1918.			
				BUILDINGS FOR PATIENTS.		BUILDINGS FOR NURSES.	
				New and Additions.	Repairs.	New and Additions.	Repairs.
<i>The insane:—</i>							
Worcester Hospital, <sup>1</sup>	\$16,520 77	\$5,500 00	\$22,020 77	\$189 30	—	—	—
Taunton Hospital,	—	25,985 00 <sup>1</sup>	25,985 00	—	—	\$13,763 95	—
Northampton Hospital,	1,805 13	113,227 70	115,032 83	—	—	2,253 69	—
Danvers Hospital,	6,427 15	36,693 77 <sup>2</sup>	43,120 92	—	—	—	—
Westborough Hospital,	17,474 46	61,510 88 <sup>3</sup>	78,985 34	1,727 77	10,404 05	—	—
Boston Hospital (including Psychopathic Department),	97,364 02	397,500 00	494,864 02	43,978 07	9,995 22	59,977 39	—
Grafton Hospital,	206,570 60	31,000 00	237,570 60	205 80	—	—	—
Medfield Hospital,	27,719 83	12,000 00	39,719 83	—	—	—	—
Foxborough Hospital,	206,252 54	118,386 30 <sup>4</sup>	324,638 84	12,375 87	5,524 02	66 39	—
Gardner Colony,	6,892 45	5,500 00	12,392 45	500 00	—	—	—
Metropolitan Hospital,	52 80	—	52 80	—	—	—	—
<b>Totals,</b>	<b>\$557,079 75</b>	<b>\$807,303 65</b>	<b>\$1,394,383 40</b>	<b>\$12,955 87</b>	<b>\$134,275 01</b>	<b>\$26,176 29</b>	<b>\$76,061 42</b>
<i>Miscellaneous:—</i>							
Morson Hospital,	\$9 50	—	\$9 50	—	—	—	—
School for Feeble-minded at Waltham,	1,219 41	\$29,500 00	30,719 41	—	—	—	—
Wrentham School,	64,994 45	7,700 00	72,694 45	\$2,004 50	\$33,946 07	\$374 72	—
School for Feeble-minded at Belchertown,	152,959 86	51,028 66 <sup>5</sup>	203,988 52	6,001 57	\$1,842 25	—	—
<b>Totals,</b>	<b>\$219,183 22</b>	<b>\$88,228 66</b>	<b>\$307,411 88</b>	<b>\$8,006 07</b>	<b>\$33,946 07</b>	<b>\$374 72</b>	<b>—</b>
<b>Totals, hospitals and miscellaneous,</b>	<b>\$806,262 97</b>	<b>\$895,332 31</b>	<b>\$1,701,795 28</b>	<b>\$20,961 94</b>	<b>\$168,221 08</b>	<b>\$28,018 54</b>	<b>\$76,436 14</b>
Mental Wards, State Infirmary,	—	—	—	—	—	—	—
Bridgewater Hospital,	—	—	—	—	—	—	—
<b>Totals, Aggregates,</b>	<b>\$806,262 97</b>	<b>\$895,332 31</b>	<b>\$1,701,795 28</b>	<b>\$20,961 94</b>	<b>\$168,221 08</b>	<b>\$28,018 54</b>	<b>\$76,436 14</b>

<sup>1</sup> Includes \$227.70 transferred.  
<sup>2</sup> Includes \$193.77 transferred.

<sup>3</sup> Includes \$10,88 transferred.  
<sup>4</sup> Includes \$36.30 transferred.

<sup>5</sup> Includes \$1,023.66 transferred.

TABLE 8.—General Statement as to Special Appropriations, 1918—Continued.

INSTITUTIONS.	EXPENDED DURING FISCAL YEAR ENDING NOV. 30, 1918—Con.					
	FOR CONSTRUCTION—Con.			FOR PATIENTS.		
	BUILDINGS FOR FARM, STABLE AND GROUNDS,	ALL OTHER BUILDINGS.		TOTAL BUILDINGS.	New and Additions.	Repairs.
	New and Additions.	Repairs.				
The insane:—						
Worcester Hospital,				\$189 30		\$225 86
Taunton Hospital,				13,763 95		—
Northampton Hospital,				7,648 30	\$253 00	—
Danvers Hospital,				—	10,404 05	—
Westborough Hospital (including Psychopathic Department),				103,955 46	9,995 22	—
Boston Hospital,				205 80	232 00	—
Grafton Hospital,				88,240 46	5,534 02	—
Medfield Hospital,				1,384 27	—	2,697 49
Foxborough Hospital,				—	—	—
Gardner Colony,				—	—	—
Metropolitan Hospital,				—	—	—
Totals, . . . . .	\$232 00	\$5,501 11	—	\$215,387 54	\$26,408 29	\$14,163 27
Miscellaneous:—						
Monson Hospital,				—	—	—
School for Feeble-minded at Waltham,	\$1,466 63	—		\$2,343 84	—	—
Wrentham School,	784 76	—		35,105 55	\$1,842 25	\$2,024 39
School for Feeble-minded at Belchertown,	—	—		—	—	—
Totals, hospitals and miscellaneous,	\$2,251 39	—	\$877 21	\$37,449 39	\$1,842 25	\$2,024 39
\$2,251 39	\$232 00	\$5,928 32	—	\$22,836 93	\$28,250 54	\$16,187 66
Mental Wards, State Infirmary, Bridgewater Hospital,	—	—	—	—	—	—
Aggregates, . . . . .	\$2,251 39	\$232 00	\$5,928 32	\$252,836 93	\$28,250 54	\$16,187 66
						\$1,772 50

TABLE 8.—*General Statement as the Special Appropriations, 1918—Continued.*

INSTITUTIONS.	EXPENDED DURING FISCAL YEAR ENDING NOV. 30, 1918—CON.			
	FOR FURNISHING AND EQUIPPING—Con.			
	FOR NURSES, First Furnishing and Equipping.	FOR FARM, STABLE AND GROUNDS, First Furnishing and Equipping.	FOR ALL OTHER PURPOSES, First Furnishing and Renewals.	FOR ALL OTHER PURPOSES, First Furnishing and Renewals.
The insane:—				
Worcester Hospital,	—	—	—	—
Taunton Hospital,	—	—	—	—
Northampton Hospital,	—	—	—	—
Danvers Hospital,	—	—	—	—
Westborough Hospital,	—	—	—	—
Boston Hospital (including Psychopathic Department),	6,116.00	18.75	—	\$48.80
Grafton Hospital,	—	—	—	2,510.30
Medfield Hospital,	—	—	—	—
Foxborough Hospital,	—	—	—	—
Gardner Colony,	—	—	—	—
Metropolitan Hospital,	—	—	—	—
Totals,	\$6,484.75	—	—	\$2,559.10
Miscellaneous:—	—	—	—	—
Monson Hospital,	—	—	—	—
School for Feeble-minded at Waltham,	—	—	—	—
Wrentham School,	—	—	—	—
School for Feeble-minded at Belchertown,	—	—	—	—
Totals, hospitals and miscellaneous,	\$6,484.75	—	—	—
Mental Wards, State Infirmary,	—	—	—	—
Bridgewater Hospital,	—	—	—	—
Totals, Aggregates,	\$6,484.75	—	—	\$2,506.05

TABLE 8. — General Statement as to Special Appropriations, 1918 — Continued.

		EXPENDED DURING FISCAL YEAR ENDING NOV. 30, 1918 — CON.			
		FOR BETTERMENTS.		FOR BETTERMENTS.	
INSTITUTIONS.		WATER SUPPLY, EXCLUSIVE OF PLUMBING IN BUILDINGS.		SEWERAGE, EXCLUSIVE OF PLUMBING IN BUILDINGS.	
FOR FURNISHING AND EQUIP- PING — Con.	TOTALS.	First Furnishing and Equipping.	Repairs and Renewals.	Adding to Original Value.	Adding to Original Value.
The insane: —					
Worcester Hospital,		\$225 86	—	\$1,877 91	\$3,760 49
Taunton Hospital,		—	—	—	—
Northampton Hospital,		—	—	—	—
Danvers Hospital,		350 00	—	3,189 08	—
Westborough Hospital,		—	—	—	—
Boston Hospital (including Psychopathic Department),		17,355 92	—	—	—
Grafton Hospital,		67 55	—	—	—
Medfield Hospital,		2,510 30	—	6,383 29	2,379 70
Foxborough Hospital,		2,697 49	—	—	—
Gardner Colony,		—	—	—	—
Metropolitan Hospital,		—	—	—	—
Totals,		\$23,207 12	\$1,772 50	\$11,450 28	\$18,818 48
Miscellaneous: —					
Mason Hospital,		—	—	—	—
School for Feeble-minded at Waltham,		\$246 95	—	—	—
Wrentham School,		2,024 39	—	—	—
School for Feeble-minded at Belchertown,		—	—	—	—
Totals,		\$2,271 34	—	—	—
Totals, hospitals and miscellaneous,		\$25,478 46	\$1,772 50	\$11,450 28	\$18,818 48
Mental Wards, State Infirmary,		—	—	—	—
Bridgewater Hospital,		—	—	—	—
Totals,		\$25,478 46	\$1,772 50	\$11,450 28	\$18,818 48
Aggregates,		—	—	—	—
					\$94,748 42

TABLE 8.—General Statement as to Special Appropriations, 1918—Concluded.

TABLE 9.—Comparative Analysis of Pay Roll, by Departments.

INSTITUTIONS.	MEDICAL SERVICE.			WARD SERVICE.		
	AVERAGE NUMBER OF PERSONS.		AVERAGE MONTHLY COMPENSATION.	AVERAGE NUMBER OF PERSONS, MALES.		Full Roster, Females.
	Full Roster, Service, 1918.	In Average Three Years, 1915-17.	1918.	Average Three Years, 1915-17.	1918.	Average Three Years, 1915-17.
<i>The insane:</i> —						
Worcester Hospital,	19	12.89	14.46	\$86.82	\$83.73	\$5.88
Taunton Hospital,	17	11.56	14.29	76.69	72.93	129
Northampton Hospital,	8	4.41	5.39	126.73	107.32	77
Danvers Hospital,	25	17.21	19.38	62.35	60.97	60
Westborough Hospital,	17	14.81	16.09	81.16	77.72	112
Boston Hospital (including Psychopathic Department),	52	42.92	40.49	80.90	73.73	101
Grafton Hospital,	16	14.09	10.83	79.71	73.19	168
Medfield Hospital,	10	7.28	8.98	92.75	81.36	103
Foxborough Hospital,	10	8.29	6.00	61.66	69.14	138
Gardner Colony,	5	3.19	3.03	112.82	105.34	33
Totals and averages,	179	136.65	138.94	\$80.36	\$75.59	30
Miscellaneous:—						
Monson Hospital,	12	6.84	8.60	\$89.13	\$98.25	78
School for Feeble-minded at Waltham,	12	7.92	5.42	114.23	122.98	171
Wrentham School,	6	4.24	3.10	120.49	121.88	131
Totals and averages,	30	19.00	17.21	\$110.19	\$110.03	380
Totals and averages, hospitals and miscellaneous,	209	155.65	156.15	\$84.00	\$79.37	1,331
				\$0.1786	\$0.1764	
				\$31	569.55	
					741.31	

TABLE 9.—Comparative Analysis of Pay Roll, by Departments—Continued.

INSTITUTIONS.	NUMBER OF PATIENTS TO ONE NURSE.					
	AVERAGE NUMBER OF PERSONS, FEMALES.		AVERAGE NUMBER OF PERSONS, TOTALS.		TOTALS.	
	In Service, 1918.	Average Three Years, 1915-17.	In Service, 1918.	Average Three Years, 1915-17.	MALES.	FEMALES.
<b>The insane:</b> —						
Worcester Hospital,	75.86	101.42	234	134.45	187.30	14.13
Taunton Hospital,	53.38	77.78	157	97.62	155.23	5.98
Northampton Hospital,	38.63	37.79	125	71.09	77.40	15.34
Danvers Hospital,	98.68	97.50	182	150.18	163.06	10.05
Westborough Hospital,	87.16	110.05	190	144.28	200.74	9.15
Boston Hospital (including Department),	150.77	160.47	247	221.61	247.61	8.29
Grafton Hospital,	83.47	89.21	191	143.65	164.39	15.23
Medfield Hospital,	104.99	131.90	221	175.92	208.52	9.27
Foxborough Hospital,	22.31	16.14	65	40.95	39.29	10.84
Gardner Colony,	29.64	20.60	72	67.35	60.25	13.05
Totals and averages,	744.89	842.86	1,684	1,246.70	1,563.79	10.93
<b>Miscellaneous:</b> —						
Monson Hospital,	44.45	55.07	141	85.68	104.21	10.39
School for Feeble-minded at Waltham,	145.59	151.67	192	162.25	175.61	11.76
Wrentham School,	98.97	78.67	145	108.82	85.97	15.74
Totals and averages,	289.01	285.41	478	356.75	365.79	11.51
Totals and averages, hospitals and miscellaneous,	1,033.90	1,128.27	2,162	1,603.45	1,869.58	11.00
						8.73
						10.04
						9.64
						10.30
						9.58
						11.00
						8.73
						10.04
						8.69
						10.38
						8.35

TABLE 9.—*Comparative Analysis of Pay Roll, by Departments*—Continued.

TABLE 9.—*Comparative Analysis of Pay Roll, by Departments*—Continued.

INSTITUTIONS.	GENERAL ADMINISTRATION — Con.			REPAIRS AND IMPROVEMENTS.		
	AVERAGE MONTHLY COMPENSATION.		AVERAGE WEEKLY PER CAPTA COST.	AVERAGE NUMBER PERSONS.		AVERAGE MONTHLY COMPENSATION.
	1918.	Average Three Years, 1915-17.	1918.	Average Three Years, 1915-17.	In Service, 1918.	Average Three Years, 1915-17.
<b>The insane:</b> —						
Worcester Hospital,	\$44.67	\$36.03	\$0.5716	\$0.5349	20	11.83
Taunton Hospital,	.7537	.40.08	.6785	.5747	12	9.15
Northampton Hospital,	.60.60	.50.58	.7642	.5911	8	6.15
Davvers Hospital,	.55.06	.48.18	.6297	.7812	27	19.83
Westborough Hospital,	.54.69	.47.11	.6227	.6249	17	7.38
Boston Hospital (including Psychopathic Department),	.55.08	.48.21	1.0388	.8731	11	10.78
Grafton Hospital,	.41.97	.36.69	.5843	.6000	25	19.11
Medfield Hospital,	.48.29	.38.19	.6664	.6201	13	10.48
Foxborough Hospital,	.57.85	.50.92	1.4707	1.3935	14	7.84
Gardner Colony, .	.51.22	.42.73	.8249	.6825	8	6.76
Totals and averages, .	\$51.26	\$42.69	\$0.7607	\$0.6786	155	109.31
Miscellaneous:—					111.76	\$102.82
Monson Hospital,	\$58.80	\$44.24	\$0.7496	\$0.6260	10	6.66
School for Feeble-minded at Waltham,	.57.68	.48.65	.4456	.3994	11	8.42
Wrentham School,	.67.47	.58.91	.4302	.4250	7	6.21
Totals and averages, .	\$60.41	\$47.75	\$0.5218	\$0.4693	28	21.29
Totals and averages, hospitals and miscellaneous,	\$52.56	\$43.42	\$0.7075	\$0.6330	183	130.60
					130.17	\$105.34
						\$83.36
						\$187.90
						\$0.1731
						\$0.1339
						\$0.1547
						\$0.1879
						\$0.2349

TABLE 9.—*Comparative Analysis of Pay Roll, by Departments—Continued.*

INSTITUTIONS.	FARM, STABLE AND GROUNDS.			AVERAGE MONTHLY COMPENSATION.	AVERAGE WEEKLY PER CAPITA COST.
	FULL ROSTER.	AVERAGE NUMBER OF PERSONS. IN SERVICE, 1918.	AVERAGE THREE YEARS, 1915-17.		
<i>The Insane:—</i>					
Worcester Hospital,	38	32.96	33.53	\$41.32	\$0.1994
Taunton Hospital,	22	17.08	19.06	.58 .27	.1665
Northampton Hospital,	24	22.65	22.30	.56 .29	.2870
Danvers Hospital,	30	19.54	20.89	.53 .90	.2364
Westborough Hospital,	23	25.54	26.81	.43 .34	.1591
Boston Hospital (including Psychopathic Department),	28	20.06	23.45	.48 .60	.1456
Grafton Hospital,	57	46.93	53.93	.43 .62	.2027
Medfield Hospital,	39	33.44	35.57	.43 .57	.1706
Foxborough Hospital,	12	12.14	10.40	.54 .03	.1389
Gardner Colony,	15	17.44	15.08	.55 .69	.2502
Totals and averages,	288	247.78	261.02	\$47.93	.1302
Miscellaneous:—				\$39.30	.2669
Monson Hospital,	31	20.45	21.77	\$68.83	.1830
School for Feeble-minded at Waltham,	37	21.73	31.19	.57 .16	.1456
Wrentham School,	14	13.30	12.47	.56 .35	.1895
Totals and averages,	82	55.48	65.43	\$57.58	.1594
Totals and averages, hospitals and miscellaneous,	370	303.26	326.45	\$49.64	.2930
				\$40.70	.2255
				\$30.2059	.2930
				\$0.1963	.2255
				\$0.2059	.2255
				\$0.1885	.2255

TABLE 9.—Comparative Analysis of Pay Roll, by Departments—Concluded.

INSTITUTIONS.	ALL PERSONS EMPLOYED.					
	Full Roster.	AVERAGE NUMBER OF PERSONS.		NUMBER OF PERSONS TO ONE EMPLOYEE.		AVERAGE MONTHLY COMPENSATION.
		In Service, 1918.	Average Three Years, 1915-17.	1918.	Average Three Years, 1915-17.	
<b>The insane:</b> —						
Worcester Hospital,	414	279.52	349.54	5.48	4.22	\$43.73
Taunton Hospital,	319	225.04	295.14	6.00	4.33	\$48.72
Northampton Hospital,	215	159.33	160.51	6.42	5.92	\$58.11
Danvers Hospital,	353	282.48	304.99	5.31	4.93	\$49.48
Westborough Hospital,	365	284.13	343.94	4.32	3.63	\$46.64
Boston Hospital (including Psychopathic Department),	472	427.36	445.40	3.77	3.57	\$48.67
Grafton Hospital,	415	337.67	364.40	5.53	4.55	\$43.37
Medfield Hospital,	397	325.68	380.42	5.01	4.25	\$42.88
Foxborough Hospital,	156	113.29	103.71	5.33	3.21	\$53.00
Gardner Colony,	164	152.88	139.33	5.19	5.42	\$49.10
Totals and averages,	3,270	2,585.38	2,887.38	4.99	4.18	\$47.25
Miscellaneous:—						\$39.33
Monson Hospital,	264	174.98	202.50	5.72	4.75	\$46.24
School for Feeble-minded at Waltham,	317	252.75	277.45	6.20	5.79	\$39.45
Wrentham School,	210	165.39	134.24	7.18	6.63	\$48.33
Totals and averages,	791	593.12	614.19	6.33	5.73	\$50.07
Totals and averages, hospitals and miscellaneous,	4,061	3,178.50	3,501.57	5.24	4.45	\$47.77
						\$42.41
						\$40.28
						\$2,0741
						\$1.8246
						\$1.7067
						\$1.9859

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GENERAL STATISTICS.

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TABLE 10.—*Statistical Form for State Institutions.*—Prepared in Accordance with a Resolution of the National Conference of Charities and Corrections, adopted May 15, 1906.

INSTITUTIONS.	SUPERINTENDENTS,	POPULATION.					
		NUMBER OF INMATES PRESENT AT BEGINNING OR FISCAL YEAR.			NUMBER RECEIVED DURING THE YEAR.		
		Males.	Females.	Totals.	Males.	Females.	Totals.
Worcester State Hospital,	B. Henry Mason, M.D., (acting superintendent). Arthur V. Gross, M.D.,	924	850	1,774	371	262	633
Taunton State Hospital,	. . . . .	750	782	1,532	257	225	482
Northampton State Hospital,	John A. Houston, M.D.,	567	552	1,119	201	206	407
Danvers State Hospital,	John B. Macdonald, M.D.,	759	997	1,756	375	359	734
Westborough State Hospital,	Harry O. Spalding, M.D.,	632	944	1,576	209	333	542
Boston State Hospital,	James V. May, M.D.,	822	973	1,795	1,167	1,031	2,198
Grafton State Hospital,	Hiram L. Horsman, M.D., (acting superintendent).	968	1,030	1,988	136	65	201
Medfield State Hospital,	Elisha H. Cohoon, M.D.,	670	985	1,655	79	95	174
Gardner State Colony,	Charles E. Thompson, M.D.,	526	327	853	17	18	35
Monson State Hospital,	Everett Flood, M.D.,	580	567	1,147	104	80	184
Foxborough State Hospital,	Albert C. Thomas, M.D.,	250	113	363	26	146	172
Massachusetts School for the Feeble-minded at Waltham.	Walter E. Fernald, M.D.,	949	627	1,576	261	92	353
Wrentham State School,	George L. Wallace, M.D.,	470	627	1,097	148	180	328
		8,857	9,374	18,231	3,351	3,092	6,443
	Totals,				3,174	2,674	5,848

TABLE 10.—*Statistical Form for State Institutions, etc.*—Continued.

TABLE 10.—*Statistical Form for State Institutions, etc.*—Concluded.

TABLE 11.—*Classes of Persons under Supervision, their Number and Location, Oct. 1, 1918, and their Increase for the Year.*

	INSANE.										ON BOOKS.										EPILEPTIC.												
	IN INSTITUTION,					NUMBER.					INCREASE FOR THE YEAR.					Non-resident.					Males.					Females.							
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.						
Inmate:																																	
Public institutions:—																																	
Worcester Hospital,	837	712	1,549	19	9 <sup>1</sup>	10	43	30 <sup>1</sup>	1,018	875	1,803	97	25	122	—	12	4	16	3	2	5	—	—	—	—	—	—	—	—	—	—		
Taunton Hospital,	685	1,368	2,053	4 <sup>1</sup>	7	3	37	195	1,774	826	1,600	24	44	68	—	19	13	32	3	2	5	—	—	—	—	—	—	—	—	—	—		
Northampton Hospital,	484	989	1,473	30	10	40	20	160	588	581	1,169	22	29	51	—	1	3	4	1	2	5	—	—	—	—	—	—	—	—	—	—		
Danvers Hospital,	863	1,487	2,350	16	6 <sup>1</sup>	22 <sup>1</sup>	28	314	801	1,028	1,829	42	31	73	—	18	6	24	3	—	3	—	—	—	—	—	—	—	—	—	—		
Westborough Hospital,	519	714	1,233	—	19	19	28	310	649	922	1,571	26	76	102	3	10	4	14	—	—	—	—	—	—	—	—	—	—	—	—	—		
Boston Hospital,	711	944	1,655	10 <sup>1</sup>	16 <sup>1</sup>	96 <sup>1</sup>	8	256	844	1,075	1,919	22	103	125	—	13	13	26	13	—	28	41	—	—	—	—	—	—	—	—	—		
Grafton Hospital,	900	958	1,858	19 <sup>1</sup>	43 <sup>1</sup>	62 <sup>1</sup>	21	77	954	1,002	1,956	4 <sup>1</sup>	28 <sup>1</sup>	32 <sup>1</sup>	—	88	112	200	—	—	—	—	—	—	—	—	—	—	—	—	—		
Medfield Hospital,	640	963	1,603	12 <sup>1</sup>	4	16 <sup>1</sup>	39	661	997	1,658	9 <sup>1</sup>	12	30	33	—	30	33	63	—	—	—	—	—	—	—	—	—	—	—	—	—		
Gardner Colony,	487	303	790	8 <sup>1</sup>	1	7 <sup>1</sup>	41	17	511	337	848	15 <sup>1</sup>	10	5 <sup>1</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Monson Hospital,	144	128	272	25 <sup>1</sup>	8 <sup>1</sup>	33 <sup>1</sup>	—	17	159	130	289	17 <sup>1</sup>	8 <sup>1</sup>	25 <sup>1</sup>	—	144	128	272	—	—	—	—	—	—	—	—	—	—	—	—	—		
Foxborough Hospital,	204	221	425	30 <sup>1</sup>	122	92 <sup>1</sup>	—	28	218	235	453	32 <sup>1</sup>	122	76	—	4 <sup>1</sup>	2 <sup>1</sup>	6	2	—	2	—	—	—	—	—	—	—	—	—	—		
Mental Wards, State Infirmary,	195	516	711	4 <sup>1</sup>	1 <sup>1</sup>	5 <sup>1</sup>	—	29	210	330	740	2 <sup>1</sup>	4	6	—	14	19	33	—	—	—	—	—	—	—	—	—	—	—	—	—		
Bridgewater Hospital,	850	—	850	5 <sup>1</sup>	—	5 <sup>1</sup>	—	14	864	—	864	19	—	19	—	25	—	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Totals, public and private,	7,299	7,491	14,790	74 <sup>1</sup>	202	128	242	8,251	16,789	177	420	597	3	378	337	715	25	34	59	—	—	—	—	—	—	—	—	—	—	—	—	—	
Family care under the Commission,	—	—	—	—	—	—	44	—	—	44	—	—	3 <sup>1</sup>	3 <sup>1</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Totals, public,	7,299	7,491	14,790	74 <sup>1</sup>	202	128	286	8,177	8,251	8,582	16,833	177	417	594	3	378	337	715	25	34	59	—	—	—	—	—	—	—	—	—	—	—	
Private institutions:—																																	
McLean Hospital,	86	121	207	2 <sup>1</sup>	1	1 <sup>1</sup>	—	13	92	128	220	4 <sup>1</sup>	6 <sup>1</sup>	2 <sup>1</sup>	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Smaller institutions,	39	102	141	6	5 <sup>1</sup>	1	—	8	41	108	149	1 <sup>1</sup>	12 <sup>1</sup>	11 <sup>1</sup>	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Totals, private,	125	223	348	4 <sup>1</sup>	—	—	21	133	236	369	3 <sup>1</sup>	6 <sup>1</sup>	9 <sup>1</sup>	66	3	1	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Totals, public and private,	7,424	7,714	15,138	70 <sup>1</sup>	198	128	286	1,778	8,384	8,818	17,202	174	411	585	69	381	338	719	25	34	59	—	—	—	—	—	—	—	—	—	—	—	

<sup>1</sup> Decrease.

TABLE 11.—*Classes of Persons under Supervision, etc.*—Continued.

TABLE 11.—*Classes of Persons under Supervision, etc.*—Continued.

	IN INSTITUTION.						ON BOOKS.						INCREASE FOR THE YEAR.	
	NUMBER.			INCREASE FOR THE YEAR.			NUMBER.			INCREASE FOR THE YEAR.				
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.		
Feeble-minded:														
School for the Feeble-minded at Waltham,	925	626	1,551	24 <sup>1</sup>	1 <sup>1</sup>	25 <sup>1</sup>	209	1,086	674	1,760	3 <sup>1</sup>	14	11	
Wrentham School,	506	706	1,212	36	79	115	143	578	777	1,356	54	103	157	
Hospital Cottages for Children,	45	74	119	45	29	74	-	45	29	74	45	29	74	
Elm Hill Institution,	31	11	42	2 <sup>1</sup>	-	2 <sup>1</sup>	-	31	11	42	2 <sup>1</sup>	-	2 <sup>1</sup>	
Smaller private institutions,	15	33	48	7	26	33	-	15	33	48	7	26	33	
Almshouses and private families,	90	99	189 <sup>2</sup>	17 <sup>1</sup>	7 <sup>1</sup>	24 <sup>1</sup>	-	90	99	189	17 <sup>1</sup>	7 <sup>1</sup>	24 <sup>1</sup>	
Totals, feeble-minded,	1,612	1,504	3,116	45	126	171	352	1,845	1,623	3,468	84	165	249	
Epileptics:														
Monson Hospital,	455	499	954	69 <sup>1</sup>	19 <sup>1</sup>	88 <sup>1</sup>	-	-	-	-	-	-	-	
Public institutions for insane,	234	209	443	1 <sup>1</sup>	6 <sup>1</sup>	7 <sup>1</sup>	-	-	-	-	-	-	-	
School for the Feeble-minded at Waltham,	8	5	13	-	-	-	-	-	-	-	-	-	-	
Hospital Cottages for Children,	38	19	57	38	19	57	-	-	-	-	-	-	-	
Private institutions,	6	4	10	1	2	3	-	-	-	-	-	-	-	
Totals, epileptics,	741	736	1,477	31 <sup>1</sup>	4 <sup>1</sup>	35 <sup>1</sup>	-	-	-	-	-	-	-	
Whole number of persons under supervision, Viz., insane, feeble-minded, epileptic and inebriate, Voluntary mental patients (same), Other classes,	9,447	9,929	19,376 <sup>3</sup>	42 <sup>1</sup>	275	233	-	-	-	-	-	-	-	
	9,421	9,874	19,295	56 <sup>1</sup>	274	218	-	-	-	-	-	-	-	
	4	17	21	-	2 <sup>1</sup>	17	-	-	-	-	-	-	-	
	22	38	60	14	3	17	-	-	-	-	-	-	-	

<sup>1</sup> Decrease.<sup>2</sup> Taken from reports of overseers of poor, March, 1919.<sup>3</sup> Includes patients in family care.

TABLE 11.—*Classes of Persons under Supervision, etc. — Concluded.*

		NON-RESIDENT.		EPILEPTIC.		SCHOOL.		CUSTODIAL.		OTHER CLASSES.		TOTAL ON BOOKS.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Feeble-minded:													
School for the Feeble-minded at Waltham, Wrentham School,	1	2	3	8	5	13	449	223	672	476	403	879	-
Hospital Cottages for Children, Elm Hill Institution,	-	-	-	38	19	57	27	12	39	18	17	35	674
Smaller private institutions,	23	8	2	2	4	4	11	8	19	20	2	3	777
Almshouses and private families,	-	-	-	-	-	-	13	31	44	2	4	17	1,355
Totals, feeble-minded,	-	-	-	24	10	34	48	26	74	791	504	1,295	-
Epileptics:													
Mosson Hospital,	-	-	-	-	-	-	-	-	-	-	-	-	-
Public institutions for insane,	-	-	-	-	-	-	-	-	-	-	-	-	-
School for the Feeble-minded at Waltham, Hospital Cottages for Children,	-	-	-	-	-	-	-	-	-	-	-	-	-
Private institutions,	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals, epileptics,	-	-	-	-	-	-	-	-	-	-	-	-	-
Whole number of persons under supervision, Viz., insane, feeble-minded, epileptic and inebriate,	-	-	-	-	-	-	-	-	-	-	-	-	-
Voluntary mental patients (sane),	-	-	-	-	-	-	-	-	-	-	-	10,733	10,966
Other classes,	-	-	-	-	-	-	-	-	-	-	-	11	28
										-	-	22	39
										-	-	22	60

TABLE 12.—Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1918.

<sup>1</sup> Includes 1 patient who was classified as sane last year.

TABLE 12.—*Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1918*—Continued.

TABLE 12.—*Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1918*—Continued.

1. Insane patients on books Sept. 30, 1917,													
Men, . . . . .		Women, . . . . .											
Admissions during year:—													
A. First admissions,		30	25	56	3,702	—	3,702	64	128	192	3,894	2,081	2,081
Men, . . . . .		10	10	16	1,954	—	1,954	30	47	81	1,863	1,256	1,256
Women, . . . . .		14	15	16	1,748	—	1,748	34	81	115	1,673	1,019	1,019
B. Readmissions, . . . . .		17	5	16	1,548	—	1,548	65	60	125	1,673	1,019	1,019
Men, . . . . .		7	1	16	836	—	836	34	27	61	987	630	630
Women, . . . . .		10	4	7	712	—	712	31	33	64	776	493	493
Total admissions, . . . . .		47	30	72	5,250	—	5,250	129	188	317	5,567	3,576	3,576
Men, . . . . .		23	11	72	2,790	—	2,790	64	74	138	2,928	1,944	1,944
Women, . . . . .		24	19	24	2,460	—	2,460	65	114	179	2,639	1,673	1,673
C. Transfers from other institutions, . . . . .		125	62	2	1,464	5	1,464	10	14	24	493	300	300
Men, . . . . .		3	18	2	162	—	162	4	5	9	171	100	100
Women, . . . . .		122	44	—	302	5	302	6	9	15	322	197	197
Total received during year, . . . . .		172	92	74	5,714	5	5,714	139	202	341	6,060	4,060	4,060
Men, . . . . .		26	29	74	2,952	5	2,952	68	79	147	3,089	2,261	2,261
Women, . . . . .		146	63	63	2,762	5	2,762	71	123	194	2,961	2,000	2,000
3. Total under treatment during year, . . . . .		535	826	922	21,911	52	21,963	357	362	719	22,682	16,682	16,682
Men, . . . . .		276	237	922	11,030	—	11,030	164	119	283	11,313	8,313	8,313
Women, . . . . .		259	589	—	10,881	52	10,933	193	243	436	11,369	8,369	8,369
Discharged from books during year:—													
A. As recovered, . . . . .		3	—	9	333	—	333	34	21	55	388	232	232
Men, . . . . .		—	—	9	211	—	211	14	7	21	156	103	103
Women, . . . . .		—	—	4	122	—	122	20	14	34	156	103	103
B. As improved, . . . . .		—	—	9	909	—	909	51	96	147	1,056	676	676
Men, . . . . .		—	—	2	509	—	509	30	37	67	577	376	376
Women, . . . . .		—	—	2	400	—	400	21	59	80	480	277	277
C. As unimproved, . . . . .		—	—	4	1,210	—	1,210	25	52	77	1,287	710	710
Men, . . . . .		—	—	4	683	—	683	8	19	27	557	557	557
Women, . . . . .		—	—	4	527	—	527	—	—	—	557	557	557

TABLE 12.—*Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1918*—Concluded.

	Foxborough Hospital	Mental Hospital	Bridgewater Hospital	Total Public Institutions	Family Care by Massachusetts Commission	Total Private Institutions	Melean Hospital	Total Private	Average Patients.
<b>3. Total under treatment during year — con.</b>									
D. Discharged from books during year — con.									
As not insane, . . . . .	-	-	3	490	-	490	-	6	496
Men, . . . . .	-	-	246	-	246	-	2	2	248
Women, . . . . .	-	-	244	-	244	-	4	4	248
E. Transferred to other institutions, . . . . .	27	12	2	460	8	468	6	25	499
Men, . . . . .	24	10	2	164	-	164	2	31	172
Women, . . . . .	3	3	-	296	8	304	4	19	23
F. Died during year, . . . . .	36	62	38	1,720	-	1,720	21	13	34
Men, . . . . .	19	20	38	966	-	966	18	7	991
Women, . . . . .	17	42	58	754	-	754	3	6	763
G. Total discharged from books during year, . . . . .	82	86	58	5,120	8	5,130	137	213	5,480
Men, . . . . .	58	27	58	2,779	-	2,779	72	78	2,929
Women, . . . . .	24	59	-	2,343	8	2,351	65	135	2,551
H. Insane patients remaining on books Sept. 30, 1918, . . . . .	453	740	864	16,789	44	16,833	220	149	17,200
Men, . . . . .	218	210	864	8,251	-	8,251	92	41	133
Women, . . . . .	235	530	-	8,538	44	8,582	128	108	8,818
I. Total daily number of patients on books during year, . . . . .	416	53	732	13	16,677	55	45,68	216	42
Men, . . . . .	218	25	204	13	8,292	50	-	93	17
Women, . . . . .	198	33	528	38	8,385	05	45,68	8,430	73
J. Average daily number of patients in institution during year, . . . . .	387	14	720	49	852	54	14,730	23	205
Men, . . . . .	203	78	199	83	852	54	-	123	25
Women, . . . . .	183	36	520	66	7,381	35	-	123	25
K. Average daily number of patients in family care during year, . . . . .	-	-	-	-	7,348	88	-	89	54
Men, . . . . .	-	-	-	-	7,348	88	-	123	25
Women, . . . . .	-	-	-	-	7,348	88	-	123	25
L. Average daily number of patients on visit and escape during year, . . . . .	29	44	12	24	7	59	1,690	34	1,710
Men, . . . . .	14	47	4	52	7	59	887	63	915
Women, . . . . .	14	97	-	-	-	-	802	71	813

8. Number of insane voluntary patients admitted during year,		599	195	794
Men,	2	309	33	391
Women,	1	290	38	403
9. Number of temporary-care cases admitted during year,		2,299	22	2,373
Men,	21	1,269	10	1,298
Women,	12	1,030	12	1,075
10. Number of patients actually remaining in institution Sept. 30, 1918,		850	14,790	15,138
Men,	711	850	7,289	7,424
Women,	204	195	7,491	7,714
State,	221	516	13,197	13,197
Reimbursing,		704	846	867
Private,		13	4	-
11. Number of patients in family care Sept. 30, 1918,		726	207	348
Men,	12	-	44	102
Women,	-	-	242	-
State,	-	-	22	-
Self-supporting,	-	-	220	-
Private,	-	-	44	-
12. Number of non-insane patients Sept. 30, 1918,		187	102	286
A. Drug cases,		31	1	22
Men,	-	-	29	-
Women,	-	-	32	-
B. Inebriates,		24	1	22
Men,	-	-	25	-
Women,	-	-	686	136
C. Neurological cases,		-	-	822
Men,	-	-	-	4
Women,	-	-	-	4
D. Epileptic (not feeble-minded),		311	371	3
Men,	-	-	-	3
Women,	-	-	-	3
E. Feeble-minded cases (not epileptics),		-	-	3
Men,	-	-	-	1
Women,	-	-	-	2
F. Feeble-minded epileptics,		-	-	-
Men,	-	-	-	-
Women,	-	-	-	-
G. All other cases,		-	-	-
Men,	-	-	-	-
Women,	-	-	-	-
H. Persons given advice or treatment in out-patient department during year,		4	3,302	3,302
Men,	2	1,454	1,454	1,454
Women,	-	1,848	1,848	1,848

TABLE 13.—*Nativity of First Admissions and of Parents of First Admissions at Public Institutions for the Insane and McLean Hospital.*

	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
United States, . . . . .	1,117	1,015	2,132	614	608	1,222	545	536	1,081
Africa, . . . . .	-	-	-	-	-	-	-	-	-
Asia (not otherwise specified), . .	4	1	5	4	4	8	2	2	4
Atlantic Islands, . . . . .	-	-	-	-	-	-	-	-	-
Australia, . . . . .	-	-	-	1	-	1	-	-	-
Austria, . . . . .	30	14	44	33	34	67	14	15	29
Belgium, . . . . .	2	1	3	3	3	6	-	-	-
Bohemia, . . . . .	-	1	1	2	2	4	1	1	2
Canada (includes Newfoundland), .	146	178	324	217	235	452	210	229	439
Central America, . . . . .	-	-	-	-	-	-	-	-	-
China, . . . . .	1	-	1	2	2	4	-	-	-
Cuba, . . . . .	-	1	1	-	-	-	1	1	2
Denmark, . . . . .	3	3	6	3	2	5	5	4	9
England, . . . . .	57	45	102	91	86	177	82	77	159
Europe (not otherwise specified), .	9	1	10	7	7	14	-	-	-
Finland, . . . . .	22	12	34	21	22	43	14	14	28
France, . . . . .	3	5	8	7	6	13	9	6	15
Germany, . . . . .	29	19	48	51	47	98	45	44	89
Greece, . . . . .	30	8	38	28	28	56	7	7	14
Hawaii, . . . . .	-	1	1	-	-	-	1	1	2
Holland, . . . . .	1	1	2	4	3	7	3	1	4
Hungary, . . . . .	3	-	3	3	3	6	2	1	3
India, . . . . .	1	-	1	1	1	2	-	-	-
Ireland, . . . . .	151	240	391	364	363	727	432	434	866
Italy, . . . . .	93	47	140	101	100	201	55	53	108
Japan, . . . . .	-	-	-	-	-	-	-	-	-
Mexico, . . . . .	2	-	2	2	2	4	-	1	1
Norway, . . . . .	8	3	11	7	8	15	3	3	6
Philippine Islands, . . . . .	1	-	1	1	1	2	-	-	-
Poland, . . . . .	24	16	40	27	25	52	17	17	34
Porto Rico, . . . . .	-	-	-	-	-	-	-	-	-
Portugal, . . . . .	29	9	38	35	34	69	14	15	29

TABLE 13.—*Nativity of First Admissions and of Parents of First Admissions at Public Institutions for the Insane and McLean Hospital*  
—Concluded.

	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Roumania, . . . . .	-	-	-	-	-	-	-	-	-
Russia, . . . . .	132	72	204	155	150	305	95	94	189
Scotland, . . . . .	19	16	35	39	30	69	41	34	75
South America, . . . . .	3	-	3	1	1	2	-	-	-
Spain, . . . . .	3	4	7	3	2	5	8	5	13
Sweden, . . . . .	25	30	55	37	35	72	35	38	73
Switzerland, . . . . .	1	-	1	3	4	7	-	-	-
Turkey in Asia, . . . . .	1	6	7	1	1	2	7	7	14
Turkey in Europe, . . . . .	20	2	22	21	20	41	4	4	8
Wales, . . . . .	2	5	7	-	4	4	3	3	6
West Indies (except Cuba and Porto Rico), . . . . .	5	11	16	6	7	13	10	10	20
Other countries, . . . . .	-	1	1	-	1	1	2	2	4
Born at sea, . . . . .	-	-	-	-	-	-	-	1	1
Total foreign born, . . . . .	860	753	1,613	1,281	1,273	2,554	1,122	1,124	2,246
Unascertained, . . . . .	7	14	21	89	103	192	115	122	237
Grand total, . . . . .	1,984	1,782	3,766	1,984	1,984	3,968	1,782	1,782	3,564

TABLE 14.—*Citizenship of First Admissions at Public Institutions for the Insane and McLean Hospital.*

	Males.	Females.	Totals.
Citizens by birth, . . . . .	1,124	1,045	2,169
Citizens by naturalization, . . . . .	127	99	226
Aliens, . . . . .	548	446	994
Citizenship unascertained, . . . . .	185	192	377
Totals, . . . . .	1,984	1,782	3,766

TABLE 15.—*Psychoses of First Admissions at Public Institutions for the Insane and McLean Hospital.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	.	.	.	.	.	.
2. Senile, total,	.	.	.	15	—	15
(a) Senile deterioration,	87	118	205	131	204	335
(b) Presbyophrenic type,	9	10	19			
(c) Delirious and confused states,	9	19	28			
(d) Depressed and agitated states in addition to deterioration,	7	23	30			
(e) Paranoid states in addition to deterioration,	17	31	48			
(f) Pre-senile,	2	3	5			
3. With cerebral arteriosclerosis,	.	.	.	170	123	293
4. General paralysis,	.	.	.	233	56	289
5. With cerebral syphilis,	.	.	.	18	25	43
6. With Huntington's chorea,	.	.	.	4	2	6
7. With brain tumor,	.	.	.	2	2	4
8. With other brain or nervous diseases, total,	.	.	.	20	24	44
Cerebral embolism,	.	.	.			
Paralysis agitans,	.	2	2			
Tubercular or other forms of meningitis,	1	1	2			
Multiple sclerosis,	1	1	2			
Tabes,	8	4	12			
Acute chorea,	1	3	4			
Other conditions,	9	13	22			
9. Alcoholic, total,	.	.	.	250	54	304
(a) Pathological intoxication,	1	2	3			
(b) Delirium tremens,	69	10	79			
(c) Acute hallucinosis,	70	12	82			
(d) Acute paranoid type,	37	9	46			
(e) Korsakow's psychosis,	9	1	10			
(f) Chronic hallucinosis,	13	7	20			
(g) Chronic paranoid type,	15	8	23			
(h) Alcoholic deterioration,	32	5	37			
(i) Other types, acute or chronic,	4	—	4			
10. Due to drugs and other exogenous toxins, total,	.	.	.	4	8	12
(a) Morphine, cocaine, bromides, chloral, etc., alone or combined,	3	6	9			
(b) Metals, as lead, arsenic, etc.,	—	—	—			
(c) Gases,	—	—	—			
(d) Other exogenous toxins,	1	2	3			
11. With pellagra,	.	.	.	—	5	5
12. Psychoses with other somatic diseases, total,	.	.	.	49	66	115
(a) Delirium with infectious diseases,	13	13	26			
(b) Post-infectious psychoses,	—	6	6			
(c) Exhaustion delirium,	6	22	28			
(d) Delirium of unknown origin,	2	2	4			
(e) Diseases of the ductless glands,	11	7	18			
(f) Cardio-renal disease,	9	7	16			
(g) Cancer,	7	5	12			
(h) Other diseases or conditions:—						
Delirium with tabes,	1	—	1			
Delirium with haemophilia,	—	1	1			
Delirium with uræmia,	—	1	1			
Exophthalmic goiter,	—	2	2			
13. Manic-depressive, total,	.	.	.	121	204	325
(a) Manic type,	49	70	119			
(b) Depressive type,	65	104	169			
(c) Stupor,	—	2	2			
(d) Mixed type,	6	27	33			
(e) Circular type,	1	1	2			
14. Involution melancholia,	.	.	.	17	54	71
15. Dementia præcox, total,	.	.	.	459	455	914
(a) Paranoid type,	197	199	396			
(b) Katatonic type,	97	114	211			
(c) Hebephrenic type,	133	125	258			
(d) Simple type,	32	17	49			

TABLE 15. — *Psychoses of First Admissions at Public Institutions for the Insane and McLean Hospital* — Concluded.

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
16. Paranoia and paranoid conditions,	.	.	.			
17. Psychoneuroses, total,	.	.	.	23	40	63
(a) Hysterical type,	13	31	44	35	56	91
(b) Psychasthenic type,	15	15	30			
(c) Neuroasthenic type,	7	9	16			
(d) Anxiety neuroses,	-	1	1			
18. With mental deficiency,	.	.	.	39	26	65
19. With constitutional psychopathic inferiority,	.	.	.	9	8	17
20. Epileptic, total,	.	.	.	61	31	92
(a) Deterioration,	34	21	55			
(b) Clouded states,	25	9	34			
(c) Other conditions,	2	1	3			
21. Undiagnosed,	.	.	.	103	101	204
22. Not insane, total,	.	.	.	221	238	459
(a) Epilepsy without psychosis,	15	19	34			
(b) Alcoholism without psychosis,	40	15	55			
(c) Drug addiction without psychosis,	4	3	7			
(d) Constitutional psychopathic inferiority without psychosis,	56	98	154			
(e) Mental deficiency without psychosis,	72	70	142			
(f) Others,	34	33	67			
Totals,	.	.	.	1,984	1,782	3,766

TABLE 16.—*Race of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*



TABLE 16.—*Race of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital—Continued.*

RACE.	WITH OTHER BRAIN OR NERVOUS DISEASES.	ALCOHOLIC.	DUE TO DRUGS AND OTHER EXOGENOUS TOXINS.	WITH PELLAGRA.	WITH OTHER SOMATIC DISEASES.	MANIC DEPRESSIVE.	INVOLUTION MELANCHOLIA.	DEMENTIA PRECOX.	Totals.	
									Males.	Females.
African (black),	-	-	-	2	1	3	-	-	1	1
American Indian,	-	-	-	1	1	1	1	2	-	-
Armenian,	-	-	-	-	-	-	-	-	-	-
Bulgarian,	-	-	-	-	-	-	-	-	-	-
Chinese,	-	-	-	-	-	-	-	-	-	-
Cuban,	-	-	-	1	1	1	1	1	-	-
Dutch and Flemish,	-	-	-	1	1	1	1	1	-	-
East Indian,	-	-	-	11	43	2	3	5	25	43
English,	-	-	-	10	32	3	5	1	13	12
Finnish,	-	-	-	5	5	3	2	1	-	-
French,	-	-	-	1	1	1	1	1	3	4
German,	-	-	-	11	2	13	1	1	12	15
Greek,	-	-	-	6	1	7	1	3	4	5
Hebrew,	-	-	-	1	1	1	1	1	1	1
Irish,	-	-	-	1	3	1	1	2	10	14
Italian,	-	-	-	9	14	1	3	2	14	23
Japanese,	-	-	-	5	108	27	135	2	37	17
Korean,	-	-	-	2	1	1	1	1	56	73
Lithuanian,	-	-	-	3	1	1	1	1	1	1
Maryar,	-	-	-	1	1	1	1	1	1	1
Mexican,	-	-	-	1	1	1	1	1	1	1
Pacific Islander,	-	-	-	1	1	1	1	1	1	1







TABLE 17.—*Age of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

TABLE 17.—*Age of First Admissions, classified with Reference to Principal Psychoses, etc.*—Concluded.

TABLE 18.—*Degree of Education of First Admission, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	Total.		ILLITERATE.		READS AND WRITES.		COMMON SCHOOL.		HIGH SCHOOL.		COLLEGE.		UNASCR-TAINED.	
	Males.		Females.		Males.		Females.		Males.		Females.		Males.	
	Total.	Females.	Total.	Males.	Total.	Males.	Total.	Males.	Total.	Males.	Total.	Males.	Total.	Males.
1. Traumatic,	15	—	15	1	2	—	2	—	8	—	2	—	—	2
2. Senile,	131	204	335	34	77	20	17	37	54	89	143	16	25	34
3. With cerebral arteriosclerosis,	170	123	293	11	12	23	34	53	87	60	147	17	14	34
4. General paralysis,	233	56	289	23	12	25	33	9	42	124	32	156	27	31
5. With cerebral syphilis,	18	25	43	2	2	4	—	3	3	10	16	26	1	7
6. With Huntington's chorea,	4	6	—	1	1	—	—	—	—	1	3	2	—	3
7. With brain tumor,	2	2	4	1	1	—	—	—	—	1	1	—	—	—
8. With other brain or nervous diseases,	20	24	44	2	3	4	7	10	15	20	30	35	3	5
9. Alcoholic,	250	54	304	27	8	35	60	10	70	128	30	158	14	3
10. Due to drugs and other exogenous toxins,	4	8	12	—	—	—	—	—	—	2	6	8	1	—
11. With pellagra,	5	5	—	—	—	—	—	—	—	4	4	5	—	—
12. With other somatic diseases,	49	66	115	3	4	7	13	9	22	18	40	58	5	8
13. Manic-depressive,	121	204	325	9	12	21	13	16	20	57	118	21	38	14
14. Involution melancholia,	17	54	71	—	7	8	8	16	6	39	46	4	6	7
15. Dementia praecox,	459	455	914	52	35	87	71	59	130	225	233	478	50	68
16. Paranoia and paranoid conditions,	23	40	63	3	2	5	4	6	13	27	40	2	5	7
17. Psychoneuroses,	35	56	91	1	3	4	8	2	10	19	41	60	6	7
18. With mental deficiency,	39	26	65	14	5	19	11	10	21	11	21	1	—	1
19. With psychopathic inferiority,	9	8	17	2	5	7	1	—	1	4	2	6	—	2
20. Epileptic,	61	31	92	12	6	18	15	7	22	29	14	43	1	2
21. Undiagnosed,	103	101	204	11	10	21	10	7	17	51	49	100	7	14
22. Not insane,	221	238	459	19	26	45	32	24	56	133	148	281	18	23
Totals,	1,984	1,782	3,766	227	183	410	336	208	544	992	1,981	189	215	404

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TABLE 19.—*Environment of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTAL.			URBAN.			RURAL.			UNASCERTAINED.		
	Males.		Females.	Males.		Females.	Males.		Females.	Males.		Females.
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1. Traumatic,	15	—	15	12	—	12	3	—	3	—	—	—
2. Senile,	131	204	335	94	156	250	37	48	85	58	—	—
3. With cerebral arteriosclerosis,	170	123	293	134	101	235	36	22	13	40	1	1
4. General paralysis,	233	56	289	205	43	248	27	1	4	5	—	—
5. With cerebral syphilis,	18	25	43	17	21	38	1	—	2	3	—	—
6. With Huntington's chorea,	4	2	6	3	—	3	1	—	2	—	—	—
7. With brain tumor,	2	2	4	2	2	4	4	—	—	—	—	—
8. With other brain or nervous diseases,	20	24	44	16	17	33	4	7	11	—	—	—
9. Alcoholic,	250	54	304	216	40	256	34	14	48	—	—	—
10. Due to drugs and other exogenous toxins,	4	—	5	4	8	12	—	—	—	—	—	—
11. With pellagra,	—	—	—	—	—	—	—	—	—	—	—	—
12. With other somatic diseases,	49	66	115	39	53	92	9	13	22	1	—	1
13. Manic-depressive,	121	204	325	100	164	264	21	40	61	—	—	—
14. Involution melancholia,	17	54	71	13	40	53	4	14	18	—	—	—
15. Dementia praecox,	459	455	914	375	748	83	82	165	1	—	1	—
16. Paranoia and paranoic conditions,	23	40	63	22	38	60	1	2	3	—	—	—
17. Psychoneuroses,	35	56	91	33	51	84	2	5	7	—	—	—
18. With mental deficiency,	39	26	65	35	20	55	4	6	10	—	—	—
19. With psychopathic inferiority,	9	8	17	6	8	14	3	—	3	—	—	—
20. Epileptic,	61	31	92	50	26	76	11	5	16	—	—	—
21. Undiagnosed,	103	101	204	92	89	181	11	12	23	—	—	—
22. Not insane,	221	238	459	202	218	420	10	19	38	—	1	1
Totals,	1,984	1,782	3,766	1,670	1,472	3,142	311	309	620	3	1	4

TABLE 20.—*Economic Condition of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

TABLE 21.— *Use of Alcohol by First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTAL.			ABSTINENT.			TEMPERATE.			INTEMPERATE.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,															
2. Senile,	15	—	15	—	7	7	—	4	4	—	2	2	—	2	2
3. With cerebral arteriosclerosis,	131	204	335	34	110	144	51	29	5	34	25	38	—	38	63
General paralysis,	170	123	293	53	81	134	56	22	78	41	2	43	20	18	38
5. With cerebral syphilis,	233	56	289	43	24	67	84	11	95	74	12	86	32	9	41
6. With Huntington's chorea,	18	25	43	3	14	17	7	4	11	5	2	7	3	5	8
7. With brain tumor,	4	2	6	3	2	5	—	—	1	1	—	—	—	—	—
8. With other brain or nervous diseases,	20	24	44	7	16	23	6	3	9	6	2	8	1	3	4
9. Alcoholite,	250	54	304	8	12	1	1	—	—	250	53	303	—	—	—
10. Due to drugs and other exogenous toxins,	4	—	—	—	—	—	—	—	—	—	5	5	—	—	—
11. With pellagra,	—	5	—	—	—	—	5	—	—	—	—	—	—	—	—
12. With other somatic diseases,	49	66	115	11	43	54	20	15	35	8	3	11	10	5	15
13. Manic-depressive,	121	204	325	40	151	191	54	26	80	15	4	19	12	23	35
14. Involution melancholia,	117	54	71	7	32	39	7	15	22	1	3	4	2	4	6
15. Dementia praecox,	459	455	914	138	258	169	80	249	92	15	107	60	102	162	162
16. Paranoia and paranoid conditions,	23	40	63	2	19	21	10	12	14	1	8	4	8	8	12
17. Psychoneuroses,	35	56	91	17	35	52	9	5	42	3	—	3	6	6	22
18. With mental deficiency,	39	26	65	23	19	42	6	7	—	2	9	3	3	3	6
19. With psychopathic inferiority,	9	8	17	2	5	7	5	3	8	1	1	1	1	1	1
20. Epileptic,	61	31	92	25	19	44	17	6	23	2	15	6	4	4	10
21. Undiagnosed,	103	101	204	26	39	65	19	24	27	10	37	25	33	38	58
22. Not insane,	221	238	459	70	101	171	62	36	98	57	23	80	32	78	110
Totals,	1,984	1,782	3,766	511	976	1,487	588	313	901	640	144	784	245	349	594

TABLE 22.—*Marital Condition of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

		Total.		SINGLE.		MARRIED.		WIDOWED.		SEPARATED.		DIVORCED.		UNASCI- TAINED.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1. Traumatic,															
2. Senile,															
3. With cerebral arteriosclerosis,															
4. General paralysis,															
5. With cerebral syphilis,															
6. With Huntington's chorea,															
7. With brain tumor,															
8. With other brain or nervous diseases,															
9. Alcoholic,															
10. Due to drugs and other exogenous toxins,															
11. With pellagra,															
12. With other somatic diseases,															
13. Manic-depressive,															
14. Involvement melancholia,															
15. Dementia praecox,															
16. Paranoia and paranoic conditions,															
17. Psychoneuroses,															
18. With mental deficiency,															
19. With psychopathetic inferiority,															
20. Epileptic,															
21. Undiagnosed,															
22. Not insane,															
	Totals,	1,984	1,782	3,766	938	692	938	692	1,630	832	709	1,541	181	334	515

TABLE 23.—*Psychoses of Readmissions at Public Institutions for the Insane and McLean Hospital.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	.	.	.	2	—	2
2. Senile, total,	.	.	.	10	17	27
(a) Simple deterioration,	3	7	10			
(b) Presbyophrenic type,	—	—	—			
(c) Delirious and confused states,	3	3	6			
(d) Depressed and agitated states in addition to deterioration,	1	2	3			
(e) Paranoid states in addition to deterioration,	3	5	8			
3. With cerebral arteriosclerosis,	.	.	.	24	14	38
4. General paralysis,	.	.	.	137	24	161
5. With cerebral syphilis,	.	.	.	9	11	20
6. With Huntington's chorea,	.	.	.	1	1	2
7. With brain tumor,	.	.	.	2	1	3
8. With other brain or nervous diseases, total,	.	.	.	3	3	6
Cerebral embolism,	.	.	.			
Paralysis agitans,	.	.	.			
Tubercular or other forms of meningitis,	.	.	.			
Multiple sclerosis,	1	—	1			
Tabes,	1	1	2			
Acute chorea,	—	1	1			
Other conditions,	1	1	2			
9. Alcoholic, total,	.	.	.	92	20	112
(a) Pathological intoxication,	2	2	4			
(b) Delirium tremens,	16	3	19			
(c) Acute hallucinosis,	36	3	39			
(d) Acute paranoid type,	4	—	4			
(e) Korsakow's psychosis,	4	4	8			
(f) Chronic hallucinosis,	7	5	12			
(g) Chronic paranoid type,	14	1	15			
(h) Alcoholic deterioration,	9	2	11			
(i) Other types, acute or chronic,	—	—	—			
10. Due to drugs and other exogenous toxins, total,	.	.	.	4	3	7
(a) Morphine, cocaine, bromides, chloral, etc., alone or combined,	4	3	7			
(b) Metals, as lead, arsenic, etc.,	—	—	—			
(c) Gases,	—	—	—			
(d) Other exogenous toxins,	—	—	—			
11. With pellagra,	—	—	—			
12. Psychoses with other somatic diseases, total,	.	.	.	5	4	9
(a) Delirium with infectious diseases,	1	—	1			
(b) Post-infectious psychoses,	—	—	—			
(c) Exhaustion delirium,	1	1	2			
(d) Delirium of unknown origin,	—	—	—			
(e) Diseases of the ductless glands,	—	1	1			
(f) Cardio-renal disease,	2	1	3			
(g) Cancer,	—	—	—			
(h) Other diseases or conditions,	1	1	2			
13. Manic-depressive, total,	.	.	.	118	193	311
(a) Manic type,	69	87	156			
(b) Depressive type,	43	81	124			
(c) Stupor,	—	1	1			
(d) Mixed type,	4	21	25			
(e) Circular type,	2	3	5			
14. Involution melancholia,	.	.	.			
15. Dementia praecox, total,	.	.	.	4	24	28
(a) Paranoid type,	134	103	237	314	282	596
(b) Katatonic type,	54	66	120			
(c) Hebephrenic type,	101	95	196			
(d) Simple type,	25	18	43			
16. Paranoia and paranoid conditions,	.	.	.	8	13	21

TABLE 23.—*Psychoses of Readmissions at Public Institutions for the Insane and McLean Hospital*—Concluded.

	PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
		Males.	Females.	Totals.	Males.	Females.	Totals.
17.	Psychoneuroses, totals,	.	.	.	.	.	.
	(a) Hysterical type,	2	14	16	7	22	29
	(b) Psychasthenic type,	4	2	6			
	(c) Neurasthenic type,	1	5	6			
	(d) Anxiety neuroses,	-	1	1			
18.	With mental deficiency,	.	.	.	.	.	.
19.	With constitutional psychopathic inferiority,	.	.	.	.	.	.
20.	Epileptic, total,	.	.	.	.	.	.
	(a) Deterioration,	24	11	35	14	18	32
	(b) Clouded states,	12	3	15	8	5	13
	(c) Other conditions,	-	-	-	36	14	50
21.	Undiagnosed,	.	.	.	.	.	.
22.	Not insane, total,	.	.	.	.	.	.
	(a) Epilepsy without psychosis,	7	5	12	26	38	64
	(b) Alcoholism without psychosis,	6	2	8			
	(c) Drug addiction without psychosis,	2	-	2			
	(d) Constitutional psychopathic inferiority without psychosis,	7	13	20			
	(e) Mental deficiency without psychosis,	11	13	24			
	(f) Others,	13	3	16			
	Totals,	.	.	.	870	743	1,613

TABLE 24.—*Discharges of Patients, classified with Reference to Principal Psychoses and Condition on Discharge, at Public Institutions for the Insane and McLean Hospital.*

TABLE 25.—*Causes of Death of Patients, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

Cause of Death.	Total.	Senile.		With Cerebral Arterio-sclerosis.	General Paralysis.	Alcoholic.	Manic-Depressive.	
		Males.	Females.				Males.	Females.
I. General Diseases.								
Abscesses in the axillary space,				1	2	1		
Anemia, pernicious,				1	2	2		
Cancer, of breast,				1	2	2		
Of breast, with metastasis to abdomen,				1	1	1		
Of descending colon,				1	1	1		
Of esophagus and larynx,				3	1	1		
Of gall bladder,				1	1	1		
Of face,				1	1	1		
Of intestines,				1	1	1		
Of kidneys,				1	1	1		
Of liver and pancreas,				1	1	1		
Of lungs,				1	1	1		
Of mesentery,				1	1	1		
Of pylorus,				1	2	3		
Of rectum,				2	2	2		
Of rectum, and liver, with metastasis,				1	1	1		
Of stomach,				2	2	2		
Of uterus,				1	1	1		
Of vagina,				1	1	1		
Adeno-carcinoma of pancreas,				1	1	1		
Sarcoma of pleura and lungs, with metastasis to liver,				1	1	1		

Diabetes,	1
Diabetes mellitus,	2
Erysipelas,	1
Facial,	1
Of leg,	1
Of leg, following acute otitis media,	3
Exhaustion,	1
Goiter, exophthalmic,	2
Influenza,	2
Malnutrition, due to refusal and regurgitation of food,	1
Otitis media, acute,	2
Pellagra,	1
Peritonitis, general, following perforation of gastric ulcer,	1
Septicemia,	1
Necrosis of ribs,	2
Pyemia,	1
General septicemia,	1
General septicemia from infection of finger,	1
General septicemia from infection of right knee,	1
General septicemia from infection of arm,	1
General septicemia from mastitis of left breast,	1
Tuberculosis, military,	1
Miliary, acute,	4
Of hip,	1
Of intestines,	1
Of peritoneum, with chronic myocarditis,	1
Pulmonary,	1
Pulmonary and intestinal,	1
Renal,	1
Other forms of tuberculosis,	1
Tubercular meningitis,	2
Tubercular peritonitis,	1
Typhoid fever,	1
Atrophic cirrhosis of liver,	1
Cirrhosis of liver,	2
Natural causes,	3
Other general diseases,	2

TABLE 25.—*Causes of Death of Patients, classified with Reference to Principal Psychoses, etc.*—Continued.

Manic-depressive insanity, exhaustion from,	—
Meningitis, cerebral,	—
Spinal, from broken-down gummata,	—
Myelitis, purulent transverse,	—
Paralysis agitans,	—
Sclerosis, amyotrophic lateral,	—
Syphilis, cerebrospinal,	—
Neuro,	—
Other diseases of nervous system,	—
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TABLE 25.—*Causes of Death of Patients, classified with Reference to Principal Psychoses, etc.*—Continued.

CAUSE OF DEATH.	TOTAL.		SENILE.		WITH CEREBRAL ARTERIO-SCLEROSIS.		GENERAL PARALYSIS.		ALCOHOLIC.		MANIC-DEPRESSIVE.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
<i>IV. Diseases of the Respiratory System.</i>												
Bronchitis, acute,	-	-	1	1	2	8	-	-	-	-	-	-
Chronic,	-	-	1	1	2	1	-	-	-	-	-	-
Gangrene of lungs,	-	-	6	1	1	1	-	-	-	-	-	-
(Edema, gangrene of glottis, acute,	-	-	1	1	1	1	-	-	-	-	-	-
Pleurisy, tuberculous,	-	-	1	1	1	1	-	-	-	-	-	-
Pneumonia,	-	-	1	1	1	1	-	-	-	-	-	-
Broncho-	93	48	141	18	36	21	6	27	7	6	5	3
Broncho and recto-vesical fistula,	-	-	1	1	1	1	-	-	-	-	-	-
Hypostatic,	-	-	1	5	6	1	-	-	-	-	-	-
Lobar,	52	36	88	8	7	15	2	2	3	2	3	2
Other diseases of the respiratory system,	-	-	2	2	4	11	-	-	-	-	-	-
<i>V. Diseases of the Digestive System.</i>												
Diseases of the stomach:	-	-	-	-	-	-	-	-	-	-	-	-
Acute gastric dilatation,	-	-	1	1	1	1	-	-	-	-	-	-
Chronic dilatation of stomach,	-	-	1	1	1	1	-	-	-	-	-	-
Gastric dilatation with cardiac paralysis,	-	-	1	1	1	1	-	-	-	-	-	-
Gastric enteritis, acute,	-	-	1	1	1	1	-	-	-	-	-	-
Gastritis, acute,	-	-	1	1	1	1	-	-	-	-	-	-

Gastro-enteritis,	1
Rupture of stomach wall,	-
Ulcer of stomach,	-
Other diseases of the stomach (cancer excepted),	-
Diseases of the intestines:—	-
Colitis, acute,	1
Acute ulcerative,	4
Chronic,	1
Colitis and prostatitis, haemorrhagic, ulcerative,	1
Diarrhoea and enteritis,	12
Enteritis,	2
Acute,	2
Acute and diarrhoea,	6
Chronic,	3
Tubercular,	-
Enterocolitis,	6
Acute,	1
Ileocolitis, acute,	9
Intestinal obstruction (peach stones),	-
Intestinal obstruction (fecal matter and gaseous distention),	-
Peritonitis,	4
Simple,	1
Purulent peritonitis from ulcerated gall bladder,	-
Strangulated hernia, double,	1
Strangulated and intimal hernia,	2
Tuberculosis of the intestines,	1
Other diseases of the intestines,	2
Diseases of the liver:—	-
Abscess of liver,	-
Cholecystitis,	-
Cholecystitis and cholelithiasis,	-
Cirrhosis of liver,	5
Biliary calculi,	-
Other diseases of liver,	1
Other diseases of digestive system (cancer and tuberculosis excepted),	1

TABLE 25.—*Causes of Death of Patients, classified with Reference to Principal Psychoses, etc.*—Continued.

CAUSE OF DEATH.	PSYCHOSES.					
	TOTAL.	SENIILE.	WITH CEREBRAL ATHERIO- SCLEROSIS.	GENERAL PARALYSIS.	ALCOHOLIC.	MANIC- DEPRESSIVE.
	Males.	Females.	Males.	Females.	Males.	Females.
<i>VI. Nonvenereal Diseases of Genito-urinary System and Adnexa.</i>						
Diseases of the kidneys:—						
Nephritis, acute, . . . . .	3	2	2	—	—	—
Chronic, . . . . .	18	21	5	5	2	2
Chronic, interstitial, . . . . .	8	22	3	3	1	1
Chronic parenchymatous, . . . . .	2	1	1	1	—	—
Pyelo, . . . . .	1	1	—	—	—	—
Other diseases of kidneys and adnexa, . . . . .	1	1	2	—	1	—
Diseases of bladder:—						
Acute cystitis, . . . . .	1	—	1	—	—	—
Acute cystitis and acute pyelitis, . . . . .	1	—	1	—	—	—
Chronic purulent cystitis, . . . . .	—	1	1	—	—	—
Pyelocystitis, . . . . .	—	—	—	—	—	—
VII. Puerperal State.						
Puerperal state, . . . . .	—	—	—	—	—	—
VIII. Diseases of the Skin and Cellular Tissues.						
Gangrene, . . . . .	—	—	—	—	1	1
Of foot, . . . . .	—	—	—	—	—	—



TABLE 25.—*Causes of Death of Patients, classified with Reference to Principal Psychoses, etc.*—Continued.

CAUSE OF DEATH.	PSYCHOSES — <i>Conn.</i>					
	INVOLUTION MELANCHOLIA,	DEMENTIA PRECOX,	PARANOIA AND PARANOID CONDITIONS.	WITH MENTAL DEFICIENCY.	WITH CON- STITUTIONAL PSYCHOPATHIC INFERIORITY.	ALL OTHER PSYCHOSES.
Males.	Females.	Totals.	Males.	Females.	Totals.	Males.
<i>I. General Diseases.</i>						
Abscesses in the axillary space, . . . . .						
Anæmia, pernicious, . . . . .						
Cancer, of breast, . . . . .						
Of breast, with metastasis to abdomen, . . . . .						
Of descending colon, . . . . .						
Of esophagus and larynx, . . . . .						
Of gall bladder, . . . . .						
Of face, . . . . .						
Of intestines, . . . . .						
Of kidneys, . . . . .						
Of liver and pancreas, . . . . .						
Of lungs, . . . . .						
Of mesentery, . . . . .						
Of pylorus, . . . . .						
Of rectum, . . . . .						
Of rectum and liver, with metastasis, . . . . .						
Of stomach, . . . . .						
Of uterus, . . . . .						
Of vagina, . . . . .						
Adeno-carcinoma of pancreas, . . . . .						
Sarcoma of pleura and lungs with metastasis to liver, . . . . .						

Diabetes,	2
Diabetes mellitus,	1
Erysipelas,	1
Facial,	1
Of leg,	2
Of leg, following acute otitis media,	2
Exhaustion,	5
Goiter, exophthalmic,	1
Influenza,	1
Malnutrition, due to refusal and regurgitation of food,	1
Otitis, media, acute,	1
Pellagra,	1
Peritonitis, general, following perforation of gastric ulcer,	1
Perforation of gastric ulcer,	2
Septicaemia,	1
Necrosis of ribs,	1
Pyemia,	1
General septicæmia,	1
General septicæmia from infection of finger,	1
General septicæmia from infection of right knee,	1
General septicæmia from infection of arm,	1
General septicæmia from mastitis of left breast,	1
Tubercolosis, miliary,	4
Miliary, acute,	4
Of hip,	1
Of intestines,	1
Of peritoneum, with chronic myocarditis,	1
Pulmonary,	3
Pulmonary and intestinal,	2
Renal,	1
Other forms of tuberculosis,	66
Tubercolar meningitis,	1
Tubercolar peritonitis,	1
Typhoid fever,	1
Atrophic cirrhosis of liver,	1
Cirrhosis of liver,	1
Natural causes,	2
Other general diseases,	1
	2

TABLE 25.—*Causes of Death of Patients, classified with Reference to Principal Psychoses, etc.—Continued.*

PSYCHOSES — Con.						
CAUSE OF DEATH.	INVOLUTION MELANCHOLIA.	DEMENTIA PRECOX.	PARANOIA AND PARANOID CONDITIONS.	WITH MENTAL DEFICIENCY.	WITH CON- STITUTIONAL PSYCHOPATHIC INFERIORITY.	ALL OTHER PSYCHOSES.
<i>II. Diseases of the Nervous System and the Organs of Special Sense.</i>						
Arteriosclerosis, . . . . .	—	—	—	—	—	—
Embolism, . . . . .	—	—	—	—	—	—
Hemorrhage, . . . . .	—	—	—	—	—	—
Thrombosis, . . . . .	—	—	—	—	—	—
Tumor, . . . . .	—	—	—	—	—	—
Chorea, . . . . .	—	—	—	—	—	—
Dementia precox, . . . . .	—	—	—	—	—	—
Diseases of spinal cord, . . . . .	—	—	—	—	—	—
Epilepsy, . . . . .	—	—	—	—	—	—
Exhaustion following epileptic excitement, . . . . .	—	—	—	—	—	—
Status epilepticus, . . . . .	—	—	—	—	—	—
Exhaustion from dementia precox, . . . . .	—	—	—	—	—	—
Exhaustion from inanition, . . . . .	—	—	—	—	—	—
Exhaustion from involutional melancholia, . . . . .	—	—	—	—	—	—
Exhaustion from katatonia, . . . . .	—	—	—	—	—	—
Exhaustion from mania, . . . . .	—	—	—	—	—	—
Exhaustion from other psychoses, . . . . .	—	—	—	—	—	—
General paralysis of insane, . . . . .	—	—	—	—	—	—
Tabs, . . . . .	—	—	—	—	—	—
Tabo-paresis, . . . . .	—	—	—	—	—	—
Huntington's chorea, . . . . .	—	—	—	—	—	—



TABLE 25.—*Causes of Death of Patients, classified with Reference to Principal Psychoses, etc.* — Continued.

CAUSE OF DEATH.	PSYCHOSES — Con.					
	INVOLUTION MELANCHOLIA.	DEMENTIA PRÆCOX.	PARANOIA AND PARANOIC CONDITIONS.	WITH MENTAL DEFICIENCY.	WITH CON- STITUTIONAL PSYCHOPATHIC INFERIORITY.	EPILEPTIC.
Brochitis, acute,			—	—	—	—
Chronic,			1	1	—	—
Gangrene of lungs,			—	—	—	—
Edema,			1	1	—	—
Edema of glottis, acute,			—	—	—	—
Pleurisy,			—	—	—	—
Pleuritis, tuberculous,			—	—	—	—
Pneumonia,			—	—	—	—
Broncho-		2	4	13	6	—
Broncho and recto-vesical fistula,		1	1	1	1	—
Hypostatic,		2	2	15	11	—
Lobar		—	—	—	2	—
Other diseases of the respiratory system,		2	—	—	1	—
<i>IV. Diseases of the Respiratory System.</i>						
Diseases of the stomach:						
Acute gastric dilatation,						—
Acute dilatation of stomach,						—
Gastric dilatation with cardiac paralysis,						—
Gastric enteritis, acute,						—
Gastritis, acute,						—
<i>V. Diseases of the Digestive System.</i>						
Diseases of the stomach:						
Acute gastric dilatation,						—
Acute dilatation of stomach,						—
Gastric dilatation with cardiac paralysis,						—
Gastric enteritis, acute,						—
Gastritis, acute,						—

Gastro-enteritis,	
Rupture of stomach wall,	
Ulcer of stomach,	
Other diseases of the stomach (cancer excepted),	
Diseases of the intestines; —	
Colitis, acute,	
Acute ulcerative,	
Chronic,	
Colitis and prostatitis, haemorrhagic, ulcerative,	
Diarrhea and enteritis,	
Enteritis,	
Acute,	
Acute and diarrhoea,	
Chronic,	
Tubercular,	
Enterocolitis,	
Acute,	
Ileocolitis, acute,	
Intestinal obstruction (peach stones),	
Intestinal obstruction (fecal matter and gaseous	
distention),	
Peritonitis,	
Simple,	
Purulent peritonitis from ulcerated gall bladder,	
Strangulated hernia, double,	
Strangulated and inguinal hernia,	
Tuberculosis of the intestines,	
Other diseases of the intestines,	
Diseases of the liver; —	
Abscess of liver,	
Cholecystitis,	
Cholecytis and cholelithiasis,	
Cirrhosis of liver,	
Biliary calculi,	
Other diseases of liver,	
Other diseases of digestive system,	
Other diseases of digestive system (cancer and tuber-	
culosis excepted),	

TABLE 25.—Causes of Death of Patients, classified with Reference to Principal Psychoses, etc.—Concluded.

## *IX. Affections produced by External Causes.*

TABLE 26.—*Age of Patients at Time of Death, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTAL.	YEARS.					
		UNDER 15.	15-20.	20-25.	25-30.	30-35.	35-40.
1. Traumatic,							
2. Senile,							
3. With cerebral arteriosclerosis,							
4. General paralysis,							
5. With cerebral syphilis,							
6. With Huntington's chorea,							
7. With brain tumor,							
8. With other brain or nervous diseases,							
9. Alcoholic,							
10. Due to drugs and other exogenous toxins,							
11. With pellagra,							
12. With other somatic diseases,							
13. Manic-depressive,							
14. Involution melancholia,							
15. Dementia praecox,							
16. Paranoia and paranoid conditions,							
17. Psychoneuroses,							
18. With mental deficiency,							
19. With psychopathic inferiority,							
20. Epileptic,							
21. Undiagnosed,							
22. Not insane,							
Totals,	984	757	1,741	3	1	4	4
Males.				6	10	24	42
Females.				18	36	57	36
Totals.				40	18	58	126
Males.				57	93	83	43
Females.				36	57	83	109
Totals.				126	109	74	183

TABLE 26.—*Age of Patients at Time of Death, classified with Reference to Principal Psychoses, etc.—Concluded.*

	YEARS.										Males.	Females.	Totals.																
	45-50.	50-55.	55-60.	60-65.	65-70.	70-75.	75-80.	OVER 80.																					
1. Traumatic,																													
2. Senile,																													
3. With cerebral arteriosclerosis,																													
4. General paralysis,																													
5. With cerebral syphilis,																													
6. With Huntington's chorea,																													
7. With brain tumor,																													
8. With other brain or nervous diseases,																													
9. Alcoholic,																													
10. Due to drugs and other exogenous toxins,																													
11. With pellagra,																													
12. With other somatic diseases,																													
13. Manic-depressive,																													
14. Involution melancholia,																													
15. Dementia precox,																													
16. Paranoia and paranoid conditions,																													
17. Psycho-neuroses,																													
18. With mental deficiency,																													
19. With psychopathic inferiority,																													
20. Epileptic,																													
21. Undiagnosed,																													
22. Not insane,																													
Totals,	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	93	56	149	98	75	173	96	59	155	87	71	138	96	78	174	109	118	227	43	52	95	42	52	94					

TABLE 27.—*Total Duration of Hospital Life of Patients dying in Public Institutions for the Insane and McLean Hospital.*

	Total.	MONTHS.						YEARS.								
		LESS THAN 1.		1-3.		4-7.		8-12.		1-2.		3-4.				
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.
1. Traumatic,	4	163	257	25	20	45	23	24	47	13	21	34	4	20	24	-
2. Senile,	153	103	256	24	24	56	24	10	34	12	9	21	11	37	48	-
3. With cerebral arteriosclerosis,	244	42	286	27	4	55	10	41	52	33	2	35	65	7	72	-
4. General paralysis,																
5. With cerebral syphilis,																
6. With Huntington's chorea,																
7. With brain tumor,																
8. With other brain or nervous diseases,																
9. Alcoholic,																
10. Due to drugs and other exogenous toxins,																
11. 1. With pellagra,																
12. 2. With other somatic diseases,																
13. Manic-depressive,																
14. Involution melancholia,																
15. Dementia praecox,																
16. Paranoia and paranoid conditions,																
17. Psychoneuroses,																
18. With mental deficiency,																
19. 9. With psychopathetic inferiority,																
20. Epileptic,																
21. 1. Undiagnosed,																
22. 2. Not insane,																
Totals,	984	757	1,741	164	111	275	129	98	227	111	61	172	69	49	118	158

TABLE 27.—*Total Duration of Hospital Life of Patients dying in Public Institutions for the Insane and McLean Hospital—Concluded.*

## DIRECTORY OF INSTITUTIONS.

### PUBLIC.

#### WORCESTER STATE HOSPITAL (opened 1833):—

Trustees: Miss Georgie A. Bacon, Worcester, chairman; Donald Gordon, Boston, clerk; William J. Delehanty, M.D., Worcester; Edward F. Fletcher, Worcester; John E. White, Worcester; John G. Perman, D.D.S., Worcester; Miss Caroline M. Caswell, Boston.

Regular meeting, second Tuesday of each month.

Acting superintendent and treasurer, B. Henry Mason, M.D. Assistant physicians, Donald R. Gilfillan, M.D.;<sup>1</sup> Arthur H. Mountford, M.D.; John C. Lindsay, M.D.;<sup>2</sup> Marie C. Lindsay, M.D.; Robert B. Harriman, M.D.; Helen W. Ham, M.D.; William J. Vivian, M.D.

Pathologist, Ada F. Harris, M.D.

Steward, Herbert W. Smith.

Visiting days, daily, 10 A.M. to 12 M., and 1 to 4 P.M.

Staff meetings, daily, 8.30 A.M.

Location, Belmont Street, Worcester, one and one-half miles from Union Station (Boston & Albany, New York, New Haven & Hartford and Boston & Maine).

#### TAUNTON STATE HOSPITAL (opened 1854):—

Trustees: Arthur B. Reed, North Abington, chairman; Mrs. Elizabeth C. M. Gifford, Cambridge, secretary; Simeon Borden, Fall River; Charles C. Cain, Jr., Taunton; Julius Berkowitz, New Bedford; Mrs. Margaret C. Smith, Taunton; Philip E. Brady, Attleboro.

Regular meeting, second Thursday of each month.

Superintendent, Arthur V. Goss, M.D.

Assistant superintendent, Horace G. Ripley, M.D.

Senior assistant physician, John F. O'Brien, M.D.

Assistant physicians, Beatrice A. Reed, M.D.; John J. Thompson, M.D.; Alma E. Fowler, M.D.; Charles E. Roderick, M.D.; Joseph V. Chatigny, M.D.

Assistant physician and pathologist, Fannie C. Haines, M.D.

<sup>1</sup> On leave of absence, Medical Corps, U. S. A., A. E. F.

<sup>2</sup> On leave of absence, Medical Corps, U. S. N.

**TAUNTON STATE HOSPITAL (opened 1854) — *Concluded.***

Treasurer, Frank W. Boynton.

Steward, Stephen F. Tracy.

Visiting days, every day.

Staff meetings, Monday, Tuesday, Thursday, Friday and Saturday at 8.15 A.M.

Location, Hodges Avenue, Taunton, one mile from railroad station (New York, New Haven & Hartford).

**NORTHAMPTON STATE HOSPITAL (opened 1858): —**

Trustees: John McQuaid, Pittsfield, chairman; Joseph W. Stevens, Greenfield, secretary; Miss Caroline A. Yale, Northampton; Luke Corcoran, M.D., Springfield; Mrs. Emily N. Newton, Holyoke; Harry L. Howard, Hatfield; Edward C. Gere, Northampton.

Regular meeting, first Thursday of each month.

Superintendent, John A. Houston, M.D.

Assistant physicians, Edward W. Whitney, M.D.; Angela Bober, M.D.; Arthur Nelson Ball, M.D.; Harriet M. Whitney, M.D.; Eliza Kilpatrick, M.D.

Treasurer and steward, Lewis F. Babbitt.

Visiting days, for relatives or friends, every day; for the general public, every day except Sunday.

Staff meetings, daily, except Sundays, at 8.15 A.M.

Location, Prince Street ("Hospital Hill"), Northampton, one and one-half miles from the railroad station, reached by carriage (Massachusetts Central and Connecticut River branches of Boston & Maine; and New Haven and Holyoke, Northampton, branches of the New York, New Haven & Hartford).

**DANVERS STATE HOSPITAL (opened 1878): —**

Post office and railroad station, Hathorne (Boston & Maine).

Trustees: S. Herbert Wilkins, Salem, chairman; Samuel Cole, secretary; Miss Mary W. Nichols, Danvers; Miss Annie M. Kilham, Beverly; Francis H. Caskin, Jr., Danvers; James F. Ingraham, Jr., Peabody; Arthur C. Nason, M.D., Newburyport.

Regular meeting, second Friday of each month.

Superintendent, John B. Macdonald, M.D.

Assistant superintendent, William A. Bryan, M.D.

Assistant physicians, Timothy E. Shine, M.D., Effie A. Stevenson, M.D.

**DANVERS STATE HOSPITAL** (opened 1878) — *Concluded.*

Assistant physician assigned to laboratory, Shichi Uyematsu, M.D.

Treasurer, Spence C. Babbitt.

Steward, Adam D. Smith.

Visiting days, every day.

Staff meetings, daily, at 8 A.M.

Location, Maple and Newbury streets, Danvers, one-quarter mile from railroad station.

**WESTBOROUGH STATE HOSPITAL** (opened 1886): —

Trustees: N. Emmons Paine, M.D., chairman, West Newton; Miss Flora L. Mason, secretary, Taunton; Walter F. Mahoney, M.D., Westborough; Charles L. Nichols, M.D., Worcester; Mr. Thomas F. Dolan, Boston; Mr. Sewall C. Brackett, Boston; Mrs. Emelie Young O'Brien, Brookline.

Regular meeting, second Thursday of each month.

Superintendent, Harry O. Spalding, M.D.

Assistant superintendent, Harry B. Ballou, M.D.

Assistant physicians, Emma H. Fay, M.D.; Hubert T. Dean, M.D.

Pathologist and director of clinical psychiatry, Solomon C. Fuller, M.D.

Steward, Melville L. Stacy.

Treasurer, George N. Ripley.

Visiting days, every day.

Staff meetings daily, at 11.30 A.M.

Location, two and one-quarter miles from Westborough station (Boston & Albany); one mile from Talbot station (New York, New Haven & Hartford).

**BOSTON STATE HOSPITAL** (opened 1839): —

Post office, Dorchester Center Station, Boston.

Trustees: Henry Lefavour, Boston, chairman; Mrs. Katherine G. Devine, South Boston, secretary; Hyman B. Swig, D. M. D., Roxbury; William F. Whittemore, Esq., Boston; Mrs. Helen B. Hopkins, Boston; John A. Kiggen, Hyde Park.

Regular meeting, third Monday of each month.

Superintendent, James V. May, M.D.

Assistant superintendent, Ermy C. Noble, M.D.

**BOSTON STATE HOSPITAL (opened 1839) — *Concluded.***

Senior assistant physicians, Mary E. Gill Noble, M.D.; Edmund M. Pease, M.D.; Dora W. Faxon, M.D.

Assistant physicians, Samuel F. Gordon, M.D.; Roderick B. Dexter, M.D.; Florence H. Abbot, M.D.

Pathologist, Oscar J. Raeder, M.D.

Steward, Arthur E. Gilman.

Treasurer, Fred L. Brown.

Location: East Group, Harvard Street, Dorchester, near Blue Hill Avenue; West Group, Walk Hill Street, about one-half mile from Blue Hill Avenue, one and one-half miles from railroad station; Psychopathic Department, 74 Fenwood Road, corner Brookline Avenue.

Visiting days, 2 to 4 P.M., daily.

***Psychopathic Department (opened 1912):—***

Post office, 74 Fenwood Road, Boston.

Chief executive officer, Arthur P. Noyes, M.D.

Chief medical officer, Lawson G. Lowry, M.D.

Executive officer, Clifford G. Rounsefell, M.D.

Assistant medical officers, John H. Travis, M.D.; Esther S. B. Woodward, M.D.; Richard H. Price, M.D.; Karl A. Menninger, M.D.; Annette McIntyre, M.D.; Edwin R. Smith, M.D.

Chief medical officers, out-patient department, Charles B. Sullivan, M.D.; Miner H. Evans, M.D.

Chief psychologist, Josephine C. Foster, Ph.D.

Assistant psychologist, Frances A. Bean.

**GRAFTON STATE HOSPITAL, FORMERLY WORCESTER STATE ASYLUM (opened 1877):—**

Trustees: Winslow P. Burhoe, Boston, chairman; Margaret A. Cashman, Newburyport, secretary; Ernest L. Anderson, Worcester; Frank B. Hall, Worcester; Francis J. Prescott, Grafton; Charlotte F. D. Ladd, Sturbridge; Roger Cutler, Boston.

Acting superintendent and treasurer, H. L. Horsman, M.D.

Senior assistant physicians, Arthur E. Pattrell, M.D.; George K. Butterfield, M.D.

Assistant physicians, Mary Johnson, M.D.; H. Wilbur Smith, M.D.; Michael J. O'Meara, M.D.

Steward, John McRae.

Visiting surgeon, Lemuel F. Woodward, M.D.

**GRAFTON STATE HOSPITAL, FORMERLY WORCESTER STATE ASYLUM** (opened 1877) — *Concluded.*

Dentists, Adelard J. Harpin, D.M.D., Worcester; Ernest P. Brigham, D.M.D., Grafton.

Visiting days, for relatives or friends, every day; for the general public, every day, except Sunday.

**Grafton Department:** —

The Grafton Department is situated on the main line of the Boston & Albany Railroad, between Worcester and Westborough, about eight miles from Worcester, and can be reached by trolley from Worcester or from the Westborough or North Grafton stations of the Boston & Albany Railroad, or from the Lyman Street crossing of the Boston & Worcester electric cars. Correspondence relating to patients at the Grafton Department should be addressed to the superintendent, Grafton State Hospital, North Grafton, Mass.

**Worcester Department:** —

The Worcester Department is located in the building formerly known as the Worcester State Asylum, on Summer Street, Worcester, about five minutes' walk from the Union Station (Boston & Albany, Boston & Maine, and New York, New Haven & Hartford railroads). Correspondence relating to patients in the Worcester Department should be addressed to the superintendent, Grafton State Hospital, Box 1178, Worcester, Mass. Correspondence intended for the steward or treasurer of the hospital should be addressed to the Grafton State Hospital, North Grafton, Mass.

Patients are subject to transfer from one department to the other when transfers are necessary to relieve overcrowding of the wards, or when it is believed that such a change will be for the benefit of the patient. Relatives and friends will be promptly notified of such transfers.

**MEDFIELD STATE HOSPITAL** (opened 1896): —

Post office, Harding; railroad station, Medfield Junction (New York, New Haven & Hartford).

Trustees: Walter Rapp, Brockton, chairman; Albert Evans, M.D., Boston, secretary; Mrs. Nellie Barker Palmer, Framingham; George O. Clark, M.D., Boston; Hon. J. C. Joseph Flamand, Cambridge; Mrs. Fannie Long, Newton Center; Christian Lantz, Salem.

**MEDFIELD STATE HOSPITAL (opened 1896) — *Concluded.***

Regular meeting, first Thursday following the first Tuesday of each month.

Superintendent, Elisha H. Cohoon, M.D.

Assistant superintendent, George E. McPherson, M.D.<sup>1</sup>

Assistant physicians: George A. Troxell, M.D.; Walter Burrier, M.D.; Anna J. Waite, M.D.; George E. Poor, M.D.; Mary E. Slattery, M.D.

Treasurer, Miss Josephine M. Baker.

Steward, Louis A. Hall.

Visiting days, every day.

Location, Asylum Road, one mile from Medfield Junction railroad station.

**GARDNER STATE COLONY (opened 1902): —**

Post office, Gardner; railroad station, East Gardner.

Trustees: Herbert B. Howard, M.D., Reading, chairman; Mrs. Amie H. Coes, Worcester, secretary; Owen A. Hoban, Gardner; George N. Harwood, Barre; Mrs. Alice Miller Spring, Fitchburg; Thomas H. Shea, Fitchburg; Thomas R. P. Gibbs, Belmont.

Regular meeting, first Friday occurring on or after the fourth day of each month.

Superintendent and treasurer, Charles E. Thompson, M.D.

Assistant superintendent, Ransom A. Greene, M.D.

Senior assistant physician, Leon E. Duval, M.D.

Assistant physicians, Milman Pease, M.D.; Florence H. Tresilian, M.D.

Visiting days, every day at any hour, including Sundays and holidays.

Location, East Gardner, two minutes' walk from East Gardner railroad station.

**MONSON STATE HOSPITAL (opened 1898): —**

Post office and railroad station, Palmer (Boston & Albany).

Trustees: George A. Moore, M.D., Palmer, chairman; Mrs. Mary B. Townsley, Springfield, secretary; William Jameson, Chicopee Falls; George D. Storrs, Ware; J. Ubalde Paquin, M.D., New Bedford; Mrs. Mary E. Donahue, Melrose Highlands; Henry K. Hyde, Ware.

Regular meeting, first Thursday of each month.

Superintendent, Everett Flood, M.D.

<sup>1</sup> On leave of absence.

**MONSON STATE HOSPITAL** (opened 1898) — *Concluded.*

Assistant superintendent, Morgan B. Hodskins, M.D.<sup>1</sup>

Senior assistant physician, Ransom A. Greene, M.D.<sup>1</sup>

Assistant physicians, Donald J. MacLean, M.D.; Buell L. Ashmore, M.D.;<sup>1</sup> Harvey M. Watkins, M.D.;<sup>1</sup> Francis M. Nesmith, M.D.; Edna N. Sypher-Kane, M.D.; Samuel O. Miller, M.D.

Pathologist, Herman Caro, M.D.<sup>1</sup>

Treasurer, Sarah E. Spalding.

Steward, Charles F. Simonds.

Visiting days, every day.

Staff meetings, every day, except Sundays and holidays, at 11.15 A.M.

Location, one mile from railroad station.

**FOXBOROUGH STATE HOSPITAL** (opened 1893. Devoted exclusively to the care of the insane since June 1, 1914): —

Trustees: Henry T. Schaefer, Boston, chairman; Thomas J. Scanlan, M.D., Boston, secretary; Edward C. Donnelly, Dedham; Isaac Heller, Boston; Maxime Lepine, Lowell; Mrs. Barbara Galpin, Somerville; Mrs. Minna R. Mulligan, Natick.

Regular meeting, second Wednesday of each month.

Superintendent and treasurer, Albert C. Thomas, M.D.

Assistant physicians, James F. McFadden, M.D.;<sup>2</sup> Marion E. Kenworthy, M.D.; Willard C. Rappleye;<sup>3</sup> Ransom H. Sartwell, M.D.

Visiting days, every day from 9 to 11 A.M. and 2 to 5 P.M.

Staff meetings daily, except Sundays and holidays, at 8.30 A.M.

Location, one mile north of Foxborough Center. Can be reached by trolley from Norwood or Mansfield.

**MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED AT WALTHAM** (opened 1848): —

Post office and railroad station, Waverley (Boston & Maine).

Trustees appointed by the Governor: Francis J. Barnes, M.D., Cambridge; Edward W. Emerson, M.D., Concord; Prof. Thomas N. Carver, Cambridge; Frederick H. Nash, treasurer, Auburndale; Frank H. Stewart, Newton; Miss Lucia L. Jaquith, Worcester.

<sup>1</sup> On leave of absence, Medical Reserve Corps.

<sup>2</sup> On leave of absence; in United States service since Sept. 7, 1917.

<sup>3</sup> On leave of absence since June 15, 1918.

MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED AT WAL-  
THAM (opened 1848) — *Concluded.*

Trustees appointed by the corporation: Frank G. Wheatley, M.D., North Abington, president; Charles Francis Adams, 2d, Concord, vice-president; Charles E. Ware, Fitchburg, secretary; Roger S. Warner, Boston; Francis H. Dewey, Worcester; H. C. Bumpus, M.D., Medford.

Quarterly meeting, second Thursday of October, January, April and July.

Superintendent and treasurer, Walter E. Fernald, M.D.

Assistant physicians, Anna M. Wallace, M.D.; Edith E. Woodill, M.D.; L. Maude Warren, M.D.; C. Stanley Raymond, M.D.

Visiting days, for the parents or friends of the patients, Wednesday, Thursday and Saturday afternoons and the first Sunday of each month; for the general public, every day, except Sunday.

Staff meetings, daily, at 9 A.M.

Location, near Clematis Brook station (Fitchburg Division, Boston & Maine); about one mile from Waverley Station (Fitchburg Division and Southern Division, Boston & Maine).

WRENTHAM STATE SCHOOL (opened 1907): —

Post office and railroad station, Wrentham.

Trustees: Albert L. Harwood, Newton, chairman; Ellerton James, Milton, secretary; Patrick J. Lynch, Beverly; George W. Gay, M.D., Newton; Mrs. Mary Stewart Scott, Brookline; Herbert C. Parsons, Boston; Miss Sarah Lawrence, Boston.

Regular meeting, second Thursday of each month.

Superintendent, George L. Wallace, M.D.

Treasurer, Miss Sara M. Clayland.

Assistant physicians, Franklin H. Perkins, M.D.; Mildred A. Libby, M.D.

Visiting days, every day.

Location, Emerald Street, Wrentham, one mile from railroad station (New York, New Haven & Hartford).

**MENTAL WARDS, STATE INFIRMARY (opened 1866):—**

Post office, Tewksbury; railroad stations, Baldwin (Western Division, Boston & Maine), Tewksbury Junction and Salem Junction (Southern Division, Boston & Maine).

Trustees: Leonard Huntress, M.D., Lowell, chairman; Mrs. Nellie E. Talbot, Brookline, secretary; Galen L. Stone, Brookline; Francis W. Anthony, M.D., Haverhill; Dennis D. Sullivan, Middleborough; Mrs. Mary E. Cogan, Stoneham; Walter F. Dearborn, M.D., Cambridge.

Regular meeting usually during last week of month, alternately at State Infirmary and State Farm.

Superintendent, John H. Nichols, M.D.

Assistant superintendent and physician, George A. Peirce, M.D.<sup>1</sup>

Assistant physicians, Alfred J. Roach, M.D.; Sherman Perry, M.D.; Charles L. Trickey, M.D.;<sup>1</sup> William T. Hanson, M.D.; Anna E. Barker, M.D.; Willard L. Quennell, M.D.<sup>1</sup>

Bacteriologist, Edward J. O'Donoghue, M.D.

Dentist, Frederick E. Twitchell, D.M.D.

Eye, ear, nose and throat specialist, Thomas H. Odeneal, M.D.<sup>1</sup>

Visiting days, every day from 10 A.M. to 4 P.M.

Staff meetings, daily, at 8 A.M.

Location, about one-half mile from railroad and from electric cars. Coach from infirmary meets most of the trains.

**BRIDGEWATER STATE HOSPITAL (opened 1886, 1895):—**

Post office, State Farm; railroad station, Titicut (New York, New Haven & Hartford).

Trustees: trustees of State Infirmary and State Farm.

Medical director, Frank H. Carlisle, M.D.

Assistant physicians, Lonnie O. Farrar, M.D., Wilmarth Y. Seymour, M.D., George A. Gaunt, M.D.

Visiting days, for relatives or friends of patients, every day; for the general public, every day, with the exception of Sundays and holidays.

Staff meetings, daily, at 10 A.M.

Location, one-quarter mile from railroad station.

<sup>1</sup> Temporarily absent, in the service.

THE HOSPITAL COTTAGES FOR CHILDREN, BALDWINVILLE (opened 1882): —

President, Herbert S. Morley, Baldwinville; clerk, Robert N. Wallis, Fitchburg.

Trustees appointed by the Governor: George B. Dewson, Cohasset; J. K. Dexter, Springfield; Arthur Lowe, Fitchburg; Herbert Morley, Baldwinville; Miss Edith H. Sears, Boston.

Trustees appointed by the corporation: Mrs. James Case, Boston; Mrs. Edward Greene, Fitchburg; Dr. S. E. Greenwood, Templeton; Dr. John Henry, Winchendon; Mrs. George Heywood, Gardner; Mr. J. M. Lasell, Whitinsville; Rev. J. R. Lemon, Gardner; Mrs. Winslow S. Lincoln, Worcester; G. W. Mackintire, Worcester; Dr. H. W. Page, Worcester; Frederick P. Stone, Otter River; Mrs. Arthur Smith, Leicester; Frederic A. Turner, Jr., Boston; Gilman Waite, Baldwinville; Robert N. Wallis, Fitchburg.

Quarterly meeting, third Wednesday of January, April, July and October.

Superintendent, Dr. Harold C. Arey, M.D.

Assistant physician, Caroline A. Osborne, M.D., Ph.D.

Treasurer, George L. Clark.

Visiting days, every day except Sundays.

Location, Hospital Street, one mile from railroad station (Ware River Branch, Boston & Albany, and Boston & Maine).

## PRIVATE.

FOR INSANE, EPILEPTIC AND PERSONS ADDICTED TO THE IN-  
TEMPERATE USE OF NARCOTICS OR STIMULANTS.

MCLEAN HOSPITAL (opened 1818): —

Department of Massachusetts General Hospital Corporation.  
Post office and railroad station, Waverley (Boston & Maine).  
President, Henry P. Walcott, M.D., Boston; treasurer,  
C. H. W. Foster, Needham; secretary, John A. Blanchard,  
Boston.

Trustees appointed by the Governor: Thomas B. Gannett,  
Boston; Joseph H. O'Neil, Boston; Mrs. Nathaniel  
Thayer, Boston; Philip L. Saltonstall, Milton.

Trustees appointed by the corporation: Henry P. Walcott,  
M.D., Cambridge; Francis H. Appleton, Boston; Na-  
thanial T. Kidder, Boston; C. W. H. Foster, Needham;  
John Lowell, Boston; Charles P. Greenough, Boston;  
George Wigglesworth, Boston; Moses Williams, Boston.

Regular meeting, usually at the office of the treasurer,  
50 State Street, Boston, on Fridays at intervals of two  
weeks, beginning sixteen days after the first Wednesday  
in February.

Superintendent, George T. Tuttle, M.D.

First assistant physician, Frederic H. Packard, M.D.

Second assistant physician, Theodore A. Hoch, M.D.

Assistant physicians, Ray L. Whitney, M.D.; Clarence M.  
Kelley, M.D.

Assistant physician and pathologist, ——.

Assistant in pathological psychology, ——.

Visiting days, week days.

Staff meetings, regularly, Tuesdays, at 8.30 a.m.; irregularly,  
on other days, at the same hour.

Location, Pleasant Street, one-third mile from railroad  
station.

BOURNEWOOD, George H. Torney, M.D., South Street, Brook-  
line. Railroad station, Bellevue (Dedham Division, New  
York, New Haven & Hartford). Fifteen minutes' walk.  
Carriage by previous arrangement.

CHANNING SANITARIUM, Walter Channing, M.D., 701 Chestnut Hill Avenue, Brookline. Railroad station, Reservoir (Boston & Albany). Carriage. Or Chestnut Hill street car to Chestnut Hill Avenue; also at Wellesley Avenue, Wellesley.

HERBERT HALL HOSPITAL, Walter C. Haviland, M.D., 223 Salisbury Street, Worcester. Salisbury Street electric car from City Hall Square.

WELLESLEY NERVINE, Frank W. Patch, M.D., Washington Street, Wellesley, also at Cartwright Road, Needham.

SHERWOOD, J. F. Edgerly, M.D., Lincoln. About two miles from railroad station.

HIGHLAND HALL, Samuel L. Eaton, M.D., 340 Lake Avenue, Newton Highlands.

DR. REEVES' NERVINE, Harriet E. Reeves, M.D., 283 Vinton Street, Melrose Highlands.

ARLINGTON HEALTH RESORT, Arthur H. Ring, M.D., Arlington Heights. Carriage. Also at Billerica.

PRIVATE HOSPITAL FOR MENTAL DISEASES, Edward Mellus, M.D., 419 Waverley Avenue, Newton. Carriage. Or Commonwealth Avenue car to Grant Avenue.

GLENNSIDE, Mabel D. Ordway, M.D., 6 Parley Vale, Jamaica Plain.

KNOLLWOOD, Earle E. Bessey, M.D., corner Beacon Street and Waban Avenue, Waban (Boston & Albany).

BELLEVUE SANITARIUM, Mary W. L. Johnson, M.D., 158 Wolcott Road, Brookline.

FOR PERSONS ADDICTED TO THE INTEMPERATE USE OF NARCOTICS  
OR STIMULANTS.

FISK HOSPITAL, 5 Sparhawk Street, Brighton. Medical director,  
Geo. R. Cate, M.D.; manager, Chas. D. B. Fisk.

PRIVATE HOSPITAL, Arthur C. Doten, M.D., 46 Roxbury Street,  
Worcester.

PRIVATE HOSPITAL, Frederick L. Taylor, M.D., 45 Center  
Street, Roxbury.

WALTER BAKER SANITARIUM, William B. Keeler, M.D., 524  
Warren Street, Roxbury.

WASHINGTONIAN HOME, Hugh Barr Gray, M.D., 41 Waltham  
Street, Boston.

DOUGLAS SANATORIUM, Charles J. Douglas, M.D., 321 Center  
Street, Dorchester.

DR. VROOMAN'S SANITARIUM, Earle M. Vrooman, M.D., 93  
Park Avenue, North Adams.

GENESEE SANITARIUM, Walter B. Russell, M.D., 36 Montrose  
Street, Springfield.

DR. SCHAEFER'S HOSPITAL, August T. Schaefer, M.D., 304 New-  
bury Street, Boston.

MASSACHUSETTS HOME AND HOSPITAL, Nathaniel K. Wood,  
M.D., corner Smyrna and Binney streets, Boston.

FOR FEEBLE-MINDED.

ELM HILL PRIVATE SCHOOL AND HOME FOR THE FEEBLE-MINDED,  
George A. Brown, M.D., Barre (Central Massachusetts  
Branch, Boston & Maine).

TERRACE HOME SCHOOL, Miss F. J. Herrick, Manager, Amherst  
(Central Massachusetts Branch, Boston & Maine). Car-  
riage.

PRIVATE SCHOOL, Miss Elizabeth C. Moulton, 80 Hammond Street, Chestnut Hill, Newton.

STANDISH MANOR, Miss Harriet G. Russell, Halifax.

HILLBROW SCHOOL, Miss Alice Shovelton, 16 Summit Street, Newton.

PRIVATE SCHOOL, Miss Caroline J. Schofield, Edgartown.



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